

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/29/2020

Reviewed on 12/29/2020

1 Identification

- **Product identifier**
- **Trade name:** MILLER'S ELASTIC STAIN
- **Article number:** 26076-05, 26076-10
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Electron Microscopy Sciences
 1560 Industry Road
 USA-Hatfield, PA 19440
 Tel: 215-412-8400 Fax: 215-412-8450
 email: info@emsdiasum.com
 www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**
 ChemTrec 1-800-424-9300 Contract CCN7661
 1-703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 Ethyl alcohol
 hydrogen chloride
 Methyl Alcohol
- **Hazard statements**
 Highly flammable liquid and vapor.
 May cause cancer.
 May cause damage to the central nervous system and the visual organs.
- **Precautionary statements**
 Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF exposed or concerned: Get medical advice/attention.
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	Ethyl alcohol	>50-≤100%
67-56-1	Methyl Alcohol	>2.5-≤10%
108-46-3	resorcinol	≤2.5%
7647-01-0	hydrogen chloride	≤2.5%
548-62-9	C.I. Basic Violet 3	≤2.5%
2185-87-7	(4-(4-(Dimethylamino)phenyl)(4-toluidino-1-naphthyl)methylen)cyclohexa-2,5-dien-1-yliden)dimethylammoniumchlorid	≤2.5%

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4 First-aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

64-17-5	Ethyl alcohol	1,800 ppm
10025-77-1	Ferric Chloride	15 mg/m ³
67-56-1	Methyl Alcohol	530 ppm
108-46-3	resorcinol	20 ppm
7647-01-0	hydrogen chloride	1.8 ppm
548-62-9	C.I. Basic Violet 3	0.082 mg/m ³

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· PAC-2:		
64-17-5	Ethyl alcohol	3300* ppm
10025-77-1	Ferric Chloride	39 mg/m ³
67-56-1	Methyl Alcohol	2,100 ppm
108-46-3	resorcinol	28 ppm
7647-01-0	hydrogen chloride	22 ppm
548-62-9	C.I. Basic Violet 3	0.9 mg/m ³
· PAC-3:		
64-17-5	Ethyl alcohol	15000* ppm
10025-77-1	Ferric Chloride	240 mg/m ³
67-56-1	Methyl Alcohol	7200* ppm
108-46-3	resorcinol	170 ppm
7647-01-0	hydrogen chloride	100 ppm
548-62-9	C.I. Basic Violet 3	83 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

64-17-5 Ethyl alcohol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm

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TLV	Short-term value: 1880 mg/m ³ , 1000 ppm
67-56-1 Methyl Alcohol	
PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI
108-46-3 resorcinol	
REL	Short-term value: 90 mg/m ³ , 20 ppm Long-term value: 45 mg/m ³ , 10 ppm
TLV	Short-term value: 90 mg/m ³ , 20 ppm Long-term value: 45 mg/m ³ , 10 ppm
7647-01-0 hydrogen chloride	
PEL	Ceiling limit value: 7 mg/m ³ , 5 ppm
REL	Ceiling limit value: 7 mg/m ³ , 5 ppm
TLV	Ceiling limit value: 2.98 mg/m ³ , 2 ppm

· Ingredients with biological limit values:

67-56-1 Methyl Alcohol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· Form:	Liquid
· Color:	Dark blue
· Odor:	Characteristic
· Odor threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	78 °C (172.4 °F)

- **Flash point:** 13 °C (55.4 °F)

- **Flammability (solid, gaseous):** Not flammable.

- **Ignition temperature:** 425 °C (797 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

· Lower:	3.5 Vol %
· Upper:	15 Vol %

- **Vapor pressure at 20 °C (68 °F):** 59 hPa (44.3 mm Hg)

· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.

- **Solubility in / Miscibility with**

- **Water:** Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

· Dynamic:	Not determined.
· Kinematic:	Not determined.

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- | | |
|----------------------------|--|
| · Solvent content: | |
| · Organic solvents: | 83.7 % |
| · Water: | 4.4 % |
| · VOC content: | 83.70 % |
| | 875.6 g/l / 7.31 lb/gal |
| · Solids content: | 2.0 % |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-56-1 Methyl Alcohol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

548-62-9 C.I. Basic Violet 3

Oral	LD50	420 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

64-17-5	Ethyl alcohol	1
108-46-3	resorcinol	3
7647-01-0	hydrogen chloride	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | UN1993 |
| · UN proper shipping name | |
| · DOT | Flammable liquids, n.o.s. (Ethanol, Hydrochloric acid) |
| · ADR | 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID) |
| · IMDG | FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT |
| · IATA | FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID) |

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· **Transport hazard class(es)**· **DOT**

· **Class** 3 Flammable liquids
 · **Label** 3, 8

· **ADR**

· **Class** 3 Flammable liquids
 · **Label** 3+8

· **IMDG**

· **Class** 3 Flammable liquids
 · **Label** 3/8

· **IATA**

· **Class** 3 Flammable liquids
 · **Label** 3 (8)

· **Packing group**· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances: resorcinol

· **Marine pollutant:** Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids

· **Hazard identification number (Kemler code):** 338

· **EMS Number:** F-E,S-E

· **Segregation groups** Acids

· **Stowage Category** B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**· **DOT**

· **Quantity limitations** On passenger aircraft/rail: 1 L
 On cargo aircraft only: 5 L

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· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), 3 (8), II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

7647-01-0	hydrogen chloride
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· Section 313 (Specific toxic chemical listings):

67-56-1	Methyl Alcohol
7647-01-0	hydrogen chloride

· TSCA (Toxic Substances Control Act):

64-17-5	Ethyl alcohol	ACTIVE
7732-18-5	Deionized Water, Reagent Grade A.C.S.	ACTIVE
67-56-1	Methyl Alcohol	ACTIVE
108-46-3	resorcinol	ACTIVE
7647-01-0	hydrogen chloride	ACTIVE
548-62-9	C.I. Basic Violet 3	ACTIVE
3248-91-7	4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2,5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride	ACTIVE
9004-53-9	DEXTRIN	ACTIVE

· Hazardous Air Pollutants

67-56-1	Methyl Alcohol
7647-01-0	hydrogen chloride

· Proposition 65

· Chemicals known to cause cancer:

548-62-9	C.I. Basic Violet 3
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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

64-17-5	Ethyl alcohol
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67-56-1	Methyl Alcohol
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- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

64-17-5	Ethyl alcohol	A3
108-46-3	resorcinol	A4
7647-01-0	hydrogen chloride	A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS08

- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

Ethyl alcohol

hydrogen chloride

Methyl Alcohol

- **Hazard statements**

Highly flammable liquid and vapor.

May cause cancer.

May cause damage to the central nervous system and the visual organs.

- **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 12/29/2020 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety **Health**

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Carc. 1A: Carcinogenicity – Category 1A

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

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Revision: 29.12.2020

1 Identification

- **Product identifier**
- **Trade name:** MILLER'S ELASTIC STAIN
- **Article number:** 26076-05, 26076-10
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- ProSciTech Pty Ltd
11 Carlton Street, Kirwan QLD 4817 Australia
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
Website: ems.proscitech.com
- Emgrid Australia Pty. Ltd.
P.O. Box 118
The Patch VIC 3792
Australia
Tel: 03 9752 1785
Fax: 03 9752 1784
Website: www.emgrid.com.au
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Carc. 1A H350 May cause cancer.

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.

- **Label elements**

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

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· **Hazard pictograms**

GHS02 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labelling:**

Ethyl alcohol
hydrogen chloride
Methyl Alcohol

· **Hazard statements**

Highly flammable liquid and vapour.
May cause cancer.
May cause damage to the central nervous system and the visual organs.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed or concerned: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

64-17-5	Ethyl alcohol	>50-≤100%
67-56-1	Methyl Alcohol	>2.5-≤10%
108-46-3	resorcinol	≤2.5%
7647-01-0	hydrogen chloride	≤2.5%
548-62-9	C.I. Basic Violet 3	≤2.5%

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2185-87-7	(4-(4-(Dimethylamino)phenyl)(4-toluidino-1-naphthyl)methylen)cyclohexa-2,5-dien-1-yliden)dimethylammoniumchlorid	≤2.5%
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· **SVHC**

548-62-9	C.I. Basic Violet 3
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 Ethyl alcohol

WES Long-term value: 1880 mg/m³, 1000 ppm

67-56-1 Methyl Alcohol

WES Short-term value: 328 mg/m³, 250 ppm
Long-term value: 262 mg/m³, 200 ppm
Sk

108-46-3 resorcinol

WES Short-term value: 90 mg/m³, 20 ppm
Long-term value: 45 mg/m³, 10 ppm

7647-01-0 hydrogen chloride

WES Peak limitation: 7.5 mg/m³, 5 ppm

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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(Contd. of page 4)

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- **Form:** Liquid
- **Colour:** Dark blue
- **Odour:** Characteristic
- **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· Change in condition

- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** 78 °C

· **Flash point:** 13 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 425 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

- **Lower:** 3.5 Vol %
- **Upper:** 15 Vol %

· **Vapour pressure at 20 °C:** 59 hPa

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· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	83.7 %
· Water:	4.4 %
· VOC (EC)	83.70 %
· Solids content:	2.0 %
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

67-56-1 Methyl Alcohol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

548-62-9 C.I. Basic Violet 3

Oral	LD50	420 mg/kg (rat)
------	------	-----------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

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Trade name: MILLER'S ELASTIC STAIN

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- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Carc. IA

12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---|
| · UN-Number | |
| · ADG, IMDG, IATA | UN1993 |
| · UN proper shipping name | |
| · ADG | 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID) |
| · IMDG | FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT |
| · IATA | FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID) |

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Trade name: MILLER'S ELASTIC STAIN

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· **Transport hazard class(es)**· **ADG**· **Class**

3 Flammable liquids.

· **Label**

3+8

· **IMDG**· **Class**

3 Flammable liquids.

· **Label**

3/8

· **IATA**· **Class**

3 Flammable liquids.

· **Label**

3 (8)

· **Packing group**· **ADG, IMDG, IATA**

II

· **Environmental hazards:**Product contains environmentally hazardous substances:
resorcinol· **Marine pollutant:**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Flammable liquids.

· **Hazard identification number (Kemler code):**

338

· **EMS Number:**

F-E,S-E

· **Segregation groups**

Acids

· **Stowage Category**

B

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADG**· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **Transport category**

2

· **Tunnel restriction code**

D/E

· **IMDG**· **Limited quantities (LQ)**

1L

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· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), 3 (8), II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

67-56-1	Methyl Alcohol	S5, S6
108-46-3	resorcinol	S6
7647-01-0	hydrogen chloride	S5, S6
548-62-9	C.I. Basic Violet 3	S4, S6, S10

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).· **Hazard pictograms**

GHS02 GHS08

· **Signal word** Danger· **Hazard-determining components of labelling:**

Ethyl alcohol

hydrogen chloride

Methyl Alcohol

· **Hazard statements**

Highly flammable liquid and vapour.

May cause cancer.

May cause damage to the central nervous system and the visual organs.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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Trade name: MILLER'S ELASTIC STAIN

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IF exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category P5c** FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

548-62-9	C.I. Basic Violet 3
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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Carc. 1A: Carcinogenicity – Category 1A

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

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1 Identification

- **Product identifier**
- **Trade name:** MILLER'S ELASTIC STAIN
- **Article number:** 26076-05, 26076-10
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Electron Microscopy Sciences
 1560 Industry Road
 USA-Hatfield, PA 19440
 Tel: 215-412-8400 Fax: 215-412-8450
 email: info@emsdiasum.com
 www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**
 ChemTrec 1-800-424-9300 Contract CCN7661
 1-703-527-3887

2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Carcinogenicity - Category 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Single Exposure -
Category 2H371 May cause damage to the central nervous
system and the visual organs.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 Ethyl alcohol
 hydrogen chloride
 Methyl Alcohol
- **Hazard statements**
 Highly flammable liquid and vapour.
 May cause cancer.
 May cause damage to the central nervous system and the visual organs.

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(Contd. of page 1)

- **Precautionary statements**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground and bond container and receiving equipment.
- Use explosion-proof [electrical/ventilating/lighting] equipment.
- Use non-sparking tools.
- Take actions to prevent static discharges.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- IF exposed or concerned: Get medical advice/attention.
- In case of fire: Use for extinction: CO₂, powder or water spray.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

64-17-5	Ethyl alcohol	60-80% w/w *
67-56-1	Methyl Alcohol	1-5% w/w *
108-46-3	resorcinol	1-5% w/w *
7647-01-0	hydrogen chloride	1-5% w/w *
548-62-9	C.I. Basic Violet 3	0.1-1% w/w *

* Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**
 Keep receptacle tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

64-17-5 Ethyl alcohol

EL STEL: 1000 ppm

EV TWA: 1,900 mg/m³, 1,000 ppm

67-56-1 Methyl Alcohol

EL STEL: 250 ppm

TWA: 200 ppm

Skin

EV STEL: 325 mg/m³, 250 ppmTWA: 260 mg/m³, 200 ppm

Skin

108-46-3 resorcinol

EL STEL: 20 ppm

TWA: 10 ppm

EV STEL: 90 mg/m³, 20 ppmTWA: 45 mg/m³, 10 ppm

7647-01-0 hydrogen chloride

EL Ceiling: 2 ppm

EV Ceiling: 2 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- | | |
|--------------------------|-----------------|
| · Form: | Liquid |
| · Color: | Dark blue |
| · Odor: | Characteristic |
| · Odor threshold: | Not determined. |

· pH-value:	Not determined.
--------------------	-----------------

· **Change in condition**

- | | |
|---------------------------------------|---------------|
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | 78 °C |

· Flash point:	13 °C
-----------------------	-------

· Flammability (solid, gaseous):	Not flammable.
---	----------------

· Ignition temperature:	425 °C
--------------------------------	--------

· Decomposition temperature:	Not determined.
-------------------------------------	-----------------

· Auto igniting:	Product is not selfigniting.
-------------------------	------------------------------

· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
-------------------------------	--

· **Explosion limits:**

- | | |
|-----------------|-----------|
| · Lower: | 3.5 Vol % |
| · Upper: | 15 Vol % |

· Vapor pressure at 20 °C:	59 hPa
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· Density:	Not determined.
-------------------	-----------------

· Relative density	Not determined.
---------------------------	-----------------

· Vapor density	Not determined.
------------------------	-----------------

· Evaporation rate	Not determined.
---------------------------	-----------------

(Contd. on page 6)

CA

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Trade name: MILLER'S ELASTIC STAIN

(Contd. of page 5)

- | | |
|---|--|
| · Solubility in / Miscibility with | |
| · Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): Not determined. | |
| · Viscosity: | |
| · Dynamic: | Not determined. |
| · Kinematic: | Not determined. |
| · Solvent content: | |
| · Organic solvents: | 83.7 % |
| · Water: | 4.4 % |
| · Solids content: 2.0 % | |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

67-56-1 Methyl Alcohol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

548-62-9 C.I. Basic Violet 3

Oral	LD50	420 mg/kg (rat)
------	------	-----------------

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

64-17-5	Ethyl alcohol	1
108-46-3	resorcinol	3
7647-01-0	hydrogen chloride	3

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|-----------------------------------|---|
| · UN-Number | |
| · DOT/TDG, ADR, IMDG, IATA | UN1993 |
| · UN proper shipping name | |
| · DOT/TDG | Flammable liquids, n.o.s. (Ethanol, Hydrochloric acid) |
| · ADR | 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID) |
| · IMDG | FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT |
| · IATA | FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID) |

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Trade name: MILLER'S ELASTIC STAIN

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· **Transport hazard class(es)**· **DOT/TDG (Transport dangerous goods):**

· **Class** 3 Flammable liquids
 · **Label** 3, 8

· **ADR**

· **Class** 3 Flammable liquids
 · **Label** 3+8

· **IMDG**

· **Class** 3 Flammable liquids
 · **Label** 3/8

· **IATA**

· **Class** 3 Flammable liquids
 · **Label** 3 (8)

· **Packing group**· **DOT/TDG, ADR, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances:
 resorcinol

· **Marine pollutant:** Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids

· **Hazard identification number (Kemler code):** 338

· **EMS Number:** F-E,S-E

· **Segregation groups** Acids

· **Stowage Category** B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**· **DOT/TDG**

· **Quantity limitations** On passenger aircraft/rail: 1 L
 On cargo aircraft only: 5 L

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· **ADR**· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **IMDG**· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), 3 (8), II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

7647-01-0 hydrogen chloride

· **Section 313 (Specific toxic chemical listings):**

67-56-1 Methyl Alcohol

7647-01-0 hydrogen chloride

· **TSCA (Toxic Substances Control Act):**

64-17-5 Ethyl alcohol

ACTIVE

7732-18-5 Deionized Water, Reagent Grade A.C.S.

ACTIVE

67-56-1 Methyl Alcohol

ACTIVE

108-46-3 resorcinol

ACTIVE

7647-01-0 hydrogen chloride

ACTIVE

548-62-9 C.I. Basic Violet 3

ACTIVE

3248-91-7 4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2,5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride

ACTIVE

9004-53-9 DEXTRIN

ACTIVE

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

64-17-5 Ethyl alcohol

7732-18-5 Deionized Water, Reagent Grade A.C.S.

67-56-1 Methyl Alcohol

108-46-3 resorcinol

7647-01-0 hydrogen chloride

548-62-9 C.I. Basic Violet 3

2185-87-7 (4-(4-(Dimethylamino)phenyl)(4-toluidino-1-naphthyl)methylen)cyclohexa-2,5-dien-1-yliden) dimethylammoniumchlorid

3248-91-7 4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2,5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride

9004-53-9 DEXTRIN

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Trade name: MILLER'S ELASTIC STAIN

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· **Canadian Ingredient Disclosure list (limit 0.1%)**

64-17-5	Ethyl alcohol
548-62-9	C.I. Basic Violet 3

· **Canadian Ingredient Disclosure list (limit 1%)**

67-56-1	Methyl Alcohol
108-46-3	resorcinol
7647-01-0	hydrogen chloride

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Ethyl alcohol

hydrogen chloride

Methyl Alcohol

· **Hazard statements**

Highly flammable liquid and vapour.

May cause cancer.

May cause damage to the central nervous system and the visual organs.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take actions to prevent static discharges.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of the latest revision of the safety data sheet** 12/29/2020 / -

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Trade name: MILLER'S ELASTIC STAIN

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· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

CA

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.12.2020

Revision: 29.12.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** MILLER'S ELASTIC STAIN
- **Article number:** 26076-05, 26076-10
- **UFI:** TA03-C01J-Y00H-V41H
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
Methyl Alcohol
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H371 May cause damage to the central nervous system and the visual organs.

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Trade name: MILLER'S ELASTIC STAIN

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6	Ethyl alcohol Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	Methyl Alcohol Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2.5-≤10%
CAS: 108-46-3 EINECS: 203-585-2	resorcinol Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2.5%
CAS: 7647-01-0 EINECS: 231-595-7	hydrogen chloride Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335	≤2.5%
CAS: 548-62-9 EINECS: 208-953-6	C.I. Basic Violet 3 Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	≤2.5%

SVHC

548-62-9 C.I. Basic Violet 3

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

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- **After swallowing:** *If symptoms persist consult doctor.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** *CO₂, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Mouth respiratory protective device.*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect from heat.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store in a cool location.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** *No further relevant information available.*

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 Ethyl alcohol

WEL Long-term value: 1920 mg/m³, 1000 ppm

67-56-1 Methyl Alcohol

WEL Short-term value: 333 mg/m³, 250 ppm
Long-term value: 266 mg/m³, 200 ppm
Sk

108-46-3 resorcinol

WEL Short-term value: 92 mg/m³, 20 ppm
Long-term value: 46 mg/m³, 10 ppm
Sk

7647-01-0 hydrogen chloride

WEL Short-term value: 8 mg/m³, 5 ppm
Long-term value: 2 mg/m³, 1 ppm
(gas and aerosol mists)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Liquid
· Colour:	Dark blue
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	78 °C

· Flash point: 13 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 425 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

· Lower:	3.5 Vol %
· Upper:	15 Vol %

· Vapour pressure at 20 °C: 59 hPa

· Density: Not determined.

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

· water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· Dynamic: Not determined.

· Kinematic: Not determined.

· Solvent content:

· Organic solvents:	83.7 %
· Water:	4.4 %
· VOC (EC)	83.70 %

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- **Solids content:** 2.0 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

67-56-1 Methyl Alcohol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

548-62-9 C.I. Basic Violet 3

Oral	LD50	420 mg/kg (rat)
------	------	-----------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause damage to the central nervous system and the visual organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Trade name: MILLER'S ELASTIC STAIN

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1993

· **14.2 UN proper shipping name**

· **ADR**

1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID)

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

3 Flammable liquids.

· **Label**

3+8

· **IMDG**



· **Class**

3 Flammable liquids.

· **Label**

3/8

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· IATA



· Class 3 Flammable liquids.
· Label 3 (8)

· 14.4 Packing group II
· ADR, IMDG, IATA

· 14.5 Environmental hazards: Product contains environmentally hazardous substances: resorcinol
· Marine pollutant: Symbol (fish and tree)

· 14.6 Special precautions for user Warning: Flammable liquids.
· Hazard identification number (Kemler code): 338
· EMS Number: F-E,S-E
· Segregation groups Acids
· Stowage Category B

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

· Transport/Additional information:

· ADR
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· Transport category 2
· Tunnel restriction code D/E

· IMDG
· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), 3 (8), II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 69, 72

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Trade name: MILLER'S ELASTIC STAIN

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· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

548-62-9 | C.I. Basic Violet 3

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H370 Causes damage to organs.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

化学品安全技术说明书

据根根据据根T 16483-2008, GB/T 17519-2013

打印日期 2020.12.29

在 2020.12.29 审核

1 化学品及企业标识

- 产品识别者
- 化学品中文名称: 木精, 化学品俗名或商品名: MILLER'S ELASTIC STAIN
- 商品编号: 26076-05, 26076-10
- 相应纯物质或者混合物的相关下位用途及禁止用途 无相关详细资料。
- 原材料的应用/准备工作进行 实验室化学物
- 安全技术说明书内供应商详细信息
- 企业名称:
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- 可获取更多资料的部门: Product safety department
- 紧急联系电话号码:
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 危险性概述

· 紧急情况概述:

深蓝色, 液体, 高度易燃液体和蒸气。吸入可能有害。造成轻微皮肤刺激。可能对造成损害 中枢神经系统和视觉器官。对水生生物有害并具有长期持续影响。

· GHS危险性类别



火焰

易燃液体 第2类

H225 高度易燃液体和蒸气



健康危害

特定靶器官系统毒性 (单次接触) 第2类 H371 可能对造成损害 中枢神经系统和视觉器官

急性毒性(吸入) 第5类

H333 吸入可能有害

皮肤腐蚀/刺激 第3类

H316 造成轻微皮肤刺激

对水环境的危害(急性) 第3类

H402 对水生生物有害

对水环境的危害(慢性) 第3类

H412 对水生生物有害并具有长期持续影响

· 标签因素

- GHS卷标元素 本产品根据化学物质分类及标记全球协调制度(GHS)进行了分类及标记。

图示图示图示



GHS02 GHS08

名称名称名称

- 标签上辨别危险的成份:
木精 (>2.5-≤10 %)

(在 2 页继续)

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(在 1 页继续)

· 危险字句

高度易燃液体和蒸气
吸入可能有害
造成轻微皮肤刺激
可能对造成损害 中枢神经系统和 视觉器官
对水生生物有害并具有长期持续影响

· 警戒字句

· 预防措施

远离热源/火花/明火/热表面。禁止吸烟
使用防爆的电气/通风/照明/设备
不要吸入粉尘/烟/气体/烟雾/蒸气/喷雾

· 事故响应

如皮肤(或头发)沾染:立即脱掉所有沾染的衣服。用水清洗皮肤/淋浴

· 安全储存

存放处须加锁

· 废弃处置

处置内装物/容器按照地方/区域/国家/国际规章

· 其他有害性

- PBT(残留性、生物浓缩性、毒性物质) 及 vPvB(高残留性、高生物浓缩性物质)评价结果
- PBT(残留性、生物浓缩性、毒性物质) 不适用的
- vPvB(高残留性、高生物浓缩性物质): 不适用的

3 成分/组成信息

· 混合物

描述描述描述以下含有无害添加济的成分组成的混合物

· 危险的成分:

64-17-5	无水酒精 ⚠ 易燃液体 第2类, H225	>50-≤100%
67-56-1	木精 ⚠ 易燃液体 第2类, H225; ⚠ 特定靶器官系统毒性 (单次接触) 第1类, H370; ⚠ 急性毒性(径口) 第4类, H302; 急性毒性(径皮肤) 第4类, H312; 急性毒性(吸入) 第4类, H332	>2.5-≤10%
108-46-3	雷琐酚 ⚠ 对水环境的危害(急性) 第1类, H400; ⚠ 急性毒性(径口) 第4类, H302; 皮肤腐蚀/刺激 第2类, H315; 严重眼睛损伤/眼睛刺激性 第2类, H319	≤2.5%
7647-01-0	氢氟酸 ⚠ 皮肤腐蚀/刺激 第1B类, H314; 严重眼睛损伤/眼睛刺激性 第1类, H318; ⚠ 急性毒性(径口) 第4类, H302; 特定靶器官系统毒性 (单次接触) 第3类, H335	≤2.5%
548-62-9	碱性紫5BN ⚠ 致癌性 第2类, H351; ⚠ 严重眼睛损伤/眼睛刺激性 第1类, H318; ⚠ 对水环境的危害(急性) 第1类, H400; 对水环境的危害(慢性) 第1类, H410; ⚠ 急性毒性(径口) 第4类, H302	≤2.5%
2185-87-7	[4-(对二甲胺苯基)-4-甲苯胺苯基-1-亚甲基]环己二烯-2,5-炔-1-二甲胺盐酸盐 ⚠ 急性毒性(径口) 第3类, H301	≤2.5%

CN

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(在 2 页继续)

4 急救措施

· 应急措施要领

· **总说明:** 中毒的症状可能会在几个小时以后才出现;因此在发生事故之后起码要有 48 小时的医疗观察。

吸入

· 供给新鲜空气. 如有需要,提供人工呼吸. 让病人保暖. 如果症状持续则询问医生.

· 万一病人不清醒时,请让病人侧躺以便移动.

· **皮肤接触:** 马上用水和肥皂进行彻底的冲洗.

· **眼睛接触:** 张开眼睛在流水下冲洗数分钟.

食入

· 如果症状仍然持续,请咨询医生.

· 给医生的资料:

· **最重要的急慢性症状及其影响** 无相关详细资料。

· **需要及时的医疗处理及特别处理的症状** 无相关详细资料。

5 消防措施

· 灭火方法

· **灭火的方法和灭火剂:** 使用二氧化碳 (CO₂)、沙粒、灭火粉末. 切勿使用水.

· **为了安全,不适当的灭火剂会:** 使用全喷嘴的水

· **特别危险性** 无相关详细资料。

· 特殊灭火方法

· **消防人员特殊的防护装备:** 口腔呼吸保护装置.

6 泄漏应急处理

· **保护措施** 带上保护仪器. 让未受到保护的人们远离.

· 环境保护措施:

· 如果渗入了水源或污水系统,请通知有关当局.

· 切勿让其进入下水道/水面或地下水.

· 密封及净化方法和材料:

· 吸收液体粘合原料 (沙粒、硅藻土、酸性粘合剂、通用粘合剂、锯屑).

· 根据第 13 条条款弃置受污染物.

· 确保有足够的通风装置.

· 切勿用水或水溶清洁剂来冲清.

· 参照其他部分

· 有关安全处理的资料请参阅第 7 节.

· 有关个人防护装备的资料请参阅第 8 节.

· 有关弃置的资料请参阅第 13 节.

7 操作处置与储存

· 操作处置

储存

· 确保工作间有良好的通风/排气装置.

· 防止气溶胶的形成.

· 有关火灾及防止爆炸的资料:

· 远离火源 - 切勿吸烟.

· 防热.

· 防静电.

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(在 3 页继续)

- **混合危险性等安全储存条件**
- **储存**
- **储存库和容器须要达到的要求:** 储存在阴凉的位置.
- **有关使用一个普通的储存设施来储存的资料:** 不需要.
- **有关储存条件的更多资料:**
 - 将容器密封.
 - 储存密封的贮藏器内,并放在阴凉、干爽的位置.
 - 免受接触热力和直接受阳光照射.
- **具体的最终用户** 无相关详细资料.

8 接触控制和个体防护

- **工程控制方法:** 没有进一步数据;见第 7 项.
- **控制变数**

· 在工作场需要监控的限值成分	
64-17-5 无水酒精	
PEL (TW)	PC-TWA: 1880 mg/m ³ , 1000 ppm
67-56-1 精木精木精	
OEL (CN)	PC-STEL: 50 mg/m ³ PC-TWA: 25 mg/m ³ 皮
PEL (TW)	PC-TWA: 262 mg/m ³ , 200 ppm
108-46-3 雷琐酚	
OEL (CN)	PC-TWA: 20 mg/m ³
PEL (TW)	PC-TWA: 45 mg/m ³ , 10 ppm
7647-01-0 氢氟酸	
OEL (CN)	最高容许浓度: 7.5 mg/m ³
PEL (TW)	PC-TWA: 7.5 mg/m ³ , 5 ppm

- **额外的资料:** 制作期间有效的清单将作为基础来使用.
- **泄漏控制**
- **个人防护设备:**
- **一般保护和卫生措施:**
 - 远离食品、饮料和饲料.
 - 立即除去所有的不洁的和被污染的衣服.
 - 在休息之前和工作完毕后请清洗双手.
 - 避免和皮肤接触.
 - 避免和眼睛及皮肤接触.
- **呼吸系统防护:**
 - 如果曾短暂接触或在低污染的情况下,请使用呼吸过滤装置. 如果曾深入或较长时间接触,请使用独立的呼吸保护装置.
- **手防护:**



保护手套

手套的物料必须是不渗透性的,且能抵抗该产品/物质/添加剂.
 基于缺乏测试,对于产品/制剂/化学混合物,并不会提供手套材料的建议
 选择手套材料时,请注意材料的渗透时间,渗透率和降解参数

(在 5 页继续)

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化学品英文名称: Elastic Dye
化学品俗名或商品名: MILLER'S ELASTIC STAIN

(在 4 页继续)

- **手套材料**
选择合适的手套不单取决于材料, 亦取决于质量特征, 以及来自哪一间生产厂家, 因为该产品是由很多材料配制而成, 手套材料的抵抗力并不可预计, 所以, 必须在使用之前进行检查
- **渗入手套材料的时间** 请向劳保手套生产厂家获取准确的破裂时间并观察实际的破裂时间
- **眼睛防护:**



密封的护目镜

9 理化特性

· 有关基本物理及化学特性的信息	
· 一般说明	
外观外观外观	液体
形状形状形状	深蓝色
颜色颜色颜色	有特性的
气味气味气味	未决定.
· 嗅觉阈限	
· pH值:	未决定.
· 条件的更改	
熔点熔点熔点	未确定的
沸点沸点沸点	78 °C
· 闪点: 13 °C	
· 可燃性 (固体、气体): 不适用的	
点火温度温度温度	425 °C
· 分解温度: 未决定.	
· 自燃温度: 该产品是不自燃的	
· 爆炸的危险性: 该产品并非爆炸性的然而有可能形成可爆炸性的空气/蒸汽混合物	
爆炸爆炸爆炸:	
较低较低较低	3.5 Vol %
· 较高:	15 Vol %
· 蒸气压 在 20 °C: 59 hPa	
· 密度: 未决定的	
· 相对密度 未决定.	
气气气密度密	未决定.
· 蒸发速率 未决定.	
溶解溶解溶解	
· 水:	不能拌和的 或难以拌和
辛醇辛醇辛醇 系数系数系数 未决定.	
· 黏性:	
动态动态动态	未决定.
运动运动运动的	未决定.

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(在 5 页继续)

- 溶剂成份:
- 有机溶剂溶 83.7 %
- 水: 4.4 %
- 固体成份: 2.0 %
- 其他信息 无相关详细资料。

10 稳定性和反应性

- 稳定性 无相关详细资料。
- 热分解 避免的条件: 如果遵照规格使用则不会分解。
- 有害分解产物 未有已知的危险反应。
- 避免的条件 无相关详细资料。
- 不相容的物质: 无相关详细资料。
- 危险的分解产物 未有已知的危险分解产品。

11 毒理学信息

- 对毒性学影响的信息
- 急性毒性:

· 与分类相关的 LD/LC50 值:

67-56 精木精木精

口腔	LD50	5,628 mg/kg (rat)
皮肤	LD50	15,800 mg/kg (rabbit)

548-62-9 碱性紫5BN

口腔	LD50	420 mg/kg (rat)
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- 重要的刺激影响:
- 皮肤刺激 刺激皮肤和粘膜。
- 在眼睛上面: 没有刺激的影响。
- 致敏 致敏作用 未有已知的敏化影响。
- 更多毒物的资料:
- 根据有关配制的一般欧盟分类指南的计算方法 (刊印在最新版本), 该产品显示以下的危险:
- 有害的
- 刺激性的

12 生态学信息

- 急性毒性
- 水生毒性: 无相关详细资料。
- 持久性和降解性 无相关详细资料。
- 环境习性:
- 潜在的累积性 无相关详细资料。
- 土壤移动性 无相关详细资料。
- 生态毒性的影响:
- 备注: 对鱼类有害
- 额外的生态学资料:
- 总括注解:
- 水危害级别 1 (德国规例) (通过名单进行自我评估): 对水是稍微危害的

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- 不要让未稀释或大量的产品接触地下水、水道或者污水系统。
对水中的有机物有危害。
 - PBT(残留性、生物浓缩性、毒性物质) 及 vPvB(高残留性、高生物浓缩性物质)评价结果
 - PBT(残留性、生物浓缩性、毒性物质) 不适用的
 - vPvB(高残留性、高生物浓缩性物质): 不适用的
- 其他其他其他用用用相关详细资料。

13 废弃处置

- **废弃处置方法**
建议建议建议能将该产品和家居垃圾一起丢弃. 不要让该产品接触污水系统。
- **受污染的容器和包装:**
建议建议建议须根据官方的规章来丢弃。

14 运输信息

联合国危险货物编号(UN号)	
· ADR, IMDG, IATA	UN1993
UN适当装船名	
· ADR	1993 易燃液体, 未另作规定的 (乙醇, 氢氟酸)
· IMDG	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID)
运输危险等级	
· ADR	
	
· 级别	3 易燃液体
标签	3+8
IMDG	
	
· Class	3 易燃液体
· Label	3/8
IATA	
	
· Class	3 易燃液体

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化学品中文名称: 雷琐酚 **化学品俗名或商品名:** MILLER'S ELASTIC STAIN

(在 7 页继续)

· Label	3 (8)
· 包装组别	
· ADR, IMDG, IATA	II
· 危害环境: · 海运污染物	该产品含有对环境有害的原料: 雷琐酚 象征符号 (鱼和树)
· 用户特别预防措施	警告: 易燃液体
· 危险编码:	338
· 运输危险类别	F-E,S-E
· Segregation groups	Acids
· Stowage Category	B
· MARPOL73/78(针对船舶引起的海洋污染预防公约 附件 I 根据根据国际国际船舶货物编码) 大量大量 运送运送运送	不适用的
运输运输额外的资料:	
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· 标准标准规定	UN 1993 易燃液体, 未另作规定的 (乙醇, 氢氟酸), 3 (8), II

15 法规信息

- 对相应纯物质或者混合物的安全、保健及环境法规/法律
- 危险化学品安全管理条例

· 危险化学品目录

64-17-5	无水酒精
67-56-1	木精
108-46-3	雷琐酚
7647-01-0	氢氟酸

· 新化学物质环境管理办法

· 国家环境化学物质名录

列出所有成分

- GHS卷标元素 本产品根据化学物质分类及标记全球协调制度(GHS)进行了分类及标记。

图示图示



GHS02 GHS08

(在 9 页继续)

化学品安全技术说明书

据根根据据根T 16483-2008, GB/T 17519-2013

打印日期 2020.12.29

在 2020.12.29 审核

化学品中文名称: 弹性去渍剂
 化学品英文名称: 弹性去渍剂
 化学品俗名或商品名: MILLER'S ELASTIC STAIN

(在 8 页继续)

名称名称名称

· 标签上辨别危险的成份:

木精 (>2.5-≤10 %)

· 危险字句

高度易燃液体和蒸气

吸入可能有害

造成轻微皮肤刺激

可能对造成损害 中枢神经系统和 视觉器官

对水生生物有害并具有长期持续影响

· 警戒字句

· 预防措施

远离热源/火花/明火/热表面。禁止吸烟

使用防爆的电气/通风/照明/设备

不要吸入粉尘/烟/气体/烟雾/蒸气/喷雾

· 事故响应

如皮肤(或头发)沾染:立即脱掉所有沾染的衣服。用水清洗皮肤/淋浴

· 安全储存

存放处须加锁

· 废弃处置

处置内装物/容器按照地方/区域/国家/国际规章

· 化学物质安全性评价: 尚未进行化学物质安全性评价

16 其他信息

该资料是基于我们目前的知识。然而,这并不构成对任何特定产品特性的担保并且不建立一个法律上有效的合同关系。

· 缩写:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: 持久性生物累积性有毒物质

vPvB: very Persistent and very Bioaccumulative

易燃液体 第2类: Flammable liquids – Category 2

急性毒性(经口) 第3类: Acute toxicity – Category 3

急性毒性(经口) 第4类: Acute toxicity – Category 4

急性毒性(吸入) 第5类: Acute toxicity – Category 5

皮肤腐蚀/刺激 第1B类: Skin corrosion/irritation – Category 1B

皮肤腐蚀/刺激 第2类: Skin corrosion/irritation – Category 2

皮肤腐蚀/刺激 第3类: Skin corrosion/irritation – Category 3

严重眼睛损伤/眼睛刺激性 第1类: Serious eye damage/eye irritation – Category 1

严重眼睛损伤/眼睛刺激性 第2类: Serious eye damage/eye irritation – Category 2

致癌性 第2类: Carcinogenicity – Category 2

特定靶器官系统毒性(单次接触) 第1类: Specific target organ toxicity (single exposure) – Category 1

特定靶器官系统毒性(单次接触) 第2类: Specific target organ toxicity (single exposure) – Category 2

特定靶器官系统毒性(单次接触) 第3类: Specific target organ toxicity (single exposure) – Category 3

对水环境的危害(急性) 第1类: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

对水环境的危害(急性) 第3类: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

对水环境的危害(慢性) 第1类: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

对水环境的危害(慢性) 第3类: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Veiligheidsinformatieblad

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RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

- **1.1 Productidentificatie**
- **Handelsnaam:** MILLER'S ELASTIC STAIN
- **Artikelnummer:** 26076-05, 26076-10
- **UFI:** TA03-C01J-Y00H-V41H
- **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**
Geen verdere relevante informatie verkrijgbaar.
- **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën
- **1.3 Details betreffende de verstreker van het veiligheidsinformatieblad**
- **Fabrikant/leverancier:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- Aurion
Binnenhaven 5
6709 PD Wageningen
The Netherlands
Tel: 31 317 415094
Fax: 31 317 415955
email: info@aurion.nl
- **Inlichtingengevende sector:** Product safety department
- **1.4 Telefoonnummer voor noodgevallen:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

RUBRIEK 2: Identificatie van de gevaren

- **2.1 Indeling van de stof of het mengsel**
- **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS02 vlam

Flam. Liq. 2 H225 Licht ontvlambare vloeistof en damp.



GHS08 gezondheidsgevaar

STOT SE 2 H371 Kan schade veroorzaken aan het centrale zenuwstelsel en de visuele organen.

Aquatic Chronic 3 H412 Schadelijk voor in het water levende organismen, met langdurige gevolgen.

- **2.2 Etiketteringselementen**
- **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**
Het product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.

(Vervolg op blz. 2)

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(Vervolg van blz. 1)

· **Gevarenpictogrammen**

GHS02 GHS08

· **Signaalwoord** Gevaar· **Gevaaraanduidende componenten voor de etikettering:**

methanol

· **Gevarenaanduidingen**

H225 Licht ontvlambare vloeistof en damp.

H371 Kan schade veroorzaken aan het centrale zenuwstelsel en de visuele organen.

H412 Schadelijk voor in het water levende organismen, met langdurige gevolgen.

· **Veiligheidsaanbevelingen**

P210 Verwijderd houden van warmte, hete oppervlakken, vonken, open vuur en andere ontstekingsbronnen. Niet roken.

P241 Explosie veilige [elektrische/ventilatie-/verlichtings-]apparatuur gebruiken.

P260 Stof/rook/gas/nevel/damp/spuitnevel niet inademen.

P303+P361+P353 BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken. Huid met water afspoelen [of afdouchen].

P405 Achter slot bewaren.

P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

· **2.3 Andere gevaren**· **Resultaten van PBT- en zPzB-beoordeling**· **PBT:** Niet bruikbaar.· **zPzB:** Niet bruikbaar.

RUBRIEK 3: Samenstelling en informatie over de bestanddelen

· **3.2 Chemische karakterisering: Mengsels**· **Beschrijving:** Mengsel van na elkaar aangevoerde stoffen met ongevaarlijke bijmengingen.· **Gevaarlijke inhoudstoffen:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	methanol Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 108-46-3 EINECS: 203-585-2	resorcinol Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2,5%
CAS: 7647-01-0 EINECS: 231-595-7	hydrogeenchloride Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335	≤2,5%
CAS: 548-62-9 EINECS: 208-953-6	[4-[4,4'-bis(dimethylamino)benzhydrylideen]cyclohexa-2,5-dieen-1-ylideen] dimethylammoniumchloride Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	≤2,5%

(Vervolg op blz. 3)

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· **SVHC**

548-62-9	[4-[4,4'-bis(dimethylamino)benzhydrylideen]cyclohexa-2,5-dien-1-ylideen] dimethylammoniumchloride
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· **Aanvullende gegevens:**

De woordelijke inhoud van de opgegeven aanwijzingen inzake de mogelijke gevaren is te vinden in hoofdstuk 16.

RUBRIEK 4: Eerstehulpmaatregelen

· **4.1 Beschrijving van de eerstehulpmaatregelen**· **Algemene informatie:**

Het is mogelijk dat vergiftigingssymptomen pas na vele uren optreden. Om deze reden is medische controle gedurende minstens 48 uur na een ongeval noodzakelijk.

· **Na het inademen:**

Frisse lucht toedienen, eventueel beademing, warmte. Wanneer de klachten niet ophouden, een arts raadplegen. Bij bewusteloosheid ligging en vervoer in stabiele zijligging.

· **Na huidcontact:** Onmiddellijk met water en zeep afwassen en goed naspoelen.· **Na oogcontact:** Ogen bij geopend ooglid meerdere minuten met stromend water spoelen· **Na inslikken:** Als de klachten niet minderen, een arts raadplegen· **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.· **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**

Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 5: Brandbestrijdingsmaatregelen

· **5.1 Blusmiddelen**· **Geschikte blusmiddelen:** CO₂, zand, bluspoeder. Geen water gebruiken.· **Blusmiddelen die uit veiligheidsoogpunt niet geschikt zijn:** Krachtige waterstraal· **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**

Geen verdere relevante informatie verkrijgbaar.

· **5.3 Advies voor brandweerlieden**· **Speciale beschermende kleding:** Ademhalingstoestel aantrekken.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

· **6.1 Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures**

Beschermende kleding aantrekken. Niet beschermde personen op afstand houden.

· **6.2 Milieuvorzorgsmaatregelen:**

Bij indringen in afvalwater of riolering moet de bevoegde instantie gewaarschuwd worden.

Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.

· **6.3 Insluitings- en reinigingsmethoden en -materiaal:**

Met vloeistofbindend materiaal (zand, bergmeel, zuurbinder, universele binder, zaagmeel) opnemen.

Besmet materiaal zoals afval volgens punt 13 verwijderen.

Voor voldoende ventilatie zorgen.

Niet met water of waterachtige reinigingsmiddelen wegspoelen.

· **6.4 Verwijzing naar andere rubrieken**

Informatie inzake veilig gebruik - zie hoofdstuk 7.

Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.

Informatie inzake berging - zie hoofdstuk 13.

NL

(Vervolg op blz. 4)

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RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**
Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.
Aërosolvorming vermijden.
- **Informatie m.b.t. brand- en ontploffingsgevaar:**
Onststekingsbronnen op afstand houden - niet roken.
Beschermen tegen hitte.
Maatregelen treffen tegen ontlading van statische elektriciteit.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Op een koele plaats bewaren.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:**
Tanks ondoordringbaar gesloten houden.
Koel en droog bewaren in goed gesloten vaten.
Tegen hitte en directe zonnestralen beschermen.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.

· 8.1 Controleparameters

- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:**

64-17-5 ethanol

WGW	Korte termijn waarde: 1900 mg/m ³ , 990 ppm Lange termijn waarde: 260 mg/m ³ , 35 ppm
-----	--

67-56-1 methanol

WGW	Lange termijn waarde: 133 mg/m ³ , 100 ppm
-----	---

108-46-3 resorcinol

WGW	Lange termijn waarde: 10 mg/m ³ , 2 ppm
-----	--

7647-01-0 hydrogeenchloride

WGW	Korte termijn waarde: 15 mg/m ³ , 10 ppm Lange termijn waarde: 8 mg/m ³ , 5 ppm
-----	--

- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.

· 8.2 Maatregelen ter beheersing van blootstelling

· Persoonlijke beschermingsvoorzieningen:

· Algemene beschermings- en gezondheidsmaatregelen:

- Verwijderd houden van eet- en drinkwaren.
- Verontreinigde kleding onmiddellijk uittrekken.
- Vóór de pauze en aan het einde van werktijd handen wassen.
- Aanraking met de huid vermijden.
- Aanraking met de ogen en de huid vermijden.

· Ademhalingsbescherming:

- Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingstoestel gebruiken.

(Vervolg op blz. 5)

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(Vervolg van blz. 4)

· Handbescherming:

Veiligheidshandschoenen

Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.
Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.

Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

· Handschoenmateriaal

De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant. Aangezien het product uit meerdere stoffen is samengesteld, is de duurzaamheid van de handschoenmaterialen niet vooraf berekenbaar en moet derhalve vóór het gebruik worden getest.

· Doordringingstijd van het handschoenmateriaal

De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.

· Oogbescherming:

Nauw aansluitende veiligheidsbril

RUBRIEK 9: Fysische en chemische eigenschappen

· 9.1 Informatie over fysische en chemische basiseigenschappen**· Algemene gegevens****· Voorkomen:**

- **Vorm:** Vloeistof
- **Kleur:** Donkerblauw
- **Geur:** Karakteristiek
- **Geurdrempelwaarde:** Niet bepaald.

· **pH-waarde:** Niet bepaald.

· Toestandsverandering

- **Smelt-/vriespunt:** Niet bepaald.
- **Beginkookpunt en kooktraject:** 78 °C

· **Vlampunt:** 13 °C

· **Ontvlambaarheid (vast, gas):** Niet bruikbaar.

· **Ontstekingstemperatuur:** 425 °C

· **Ontledingstemperatuur:** Niet bepaald.

· **Zelfontbrandingstemperatuur:** Het produkt ontbrandt niet uit zichzelf.

· **Ontploffingseigenschappen:** Het produkt is niet ontploffingsgevaarlijk, maar de vorming van ontploffingsgevaarlijke damp-/luchtmengsels is mogelijk.

· Ontploffingsgrenzen:

- **Onderste:** 3,5 Vol %
- **Bovenste:** 15 Vol %

· **Dampspanning bij 20 °C:** 59 hPa

(Vervolg op blz. 6)

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(Vervolg van blz. 5)

· Dichtheid:	Niet bepaald.
· Relatieve dichtheid	Niet bepaald.
· Dampdichtheid	Niet bepaald.
· Verdampingsnelheid	Niet bepaald.
· Oplosbaarheid in/mengbaarheid met	
· Water:	Niet resp. gering mengbaar.
· Verdelingscoëfficiënt: n-octanol/water:	Niet bepaald.
· Viscositeit	
· Dynamisch:	Niet bepaald.
· Kinematisch:	Niet bepaald.
· Oplosmiddelgehalte:	
· Organisch oplosmiddel:	83,7 %
· Water:	4,4 %
· VOC (EG)	83,70 %
· Gehalte aan vaste bestanddelen:	2,0 %
· 9.2 Overige informatie	Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit** Geen verdere relevante informatie verkrijgbaar.
- **10.2 Chemische stabiliteit**
- **Thermische afbraak / te vermijden omstandigheden:** Geen afbraak bij gebruik volgens voorschrift.
- **10.3 Mogelijke gevaarlijke reacties** Geen gevaarlijke reacties bekend.
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen:** Geen verdere relevante informatie verkrijgbaar.
- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Indelingsrelevantie LD/LC50-waarden:

67-56-1 methanol

Oraal	LD50	5.628 mg/kg (rat)
Dermaal	LD50	15.800 mg/kg (rabbit)

548-62-9 [4-[4,4'-bis(dimethylamino)benzhydrylideen]cyclohexa-2,5-dieen-1-ylideen] dimethylammoniumchloride

Oraal	LD50	420 mg/kg (rat)
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- **Primaire aandoening:**
- **Huidcorrosie/irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Sensibilisatie van de luchtwegen/de huid**
Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

(Vervolg op blz. 7)

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(Vervolg van blz. 6)

- **STOT bij eenmalige blootstelling**
Kan schade veroorzaken aan het centrale zenuwstelsel en de visuele organen.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Ecotoxische effecten:**
- **Opmerking:** Schadelijk voor vissen.
- **Verdere ecologische informatie:**
- **Algemene informatie:**
Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)
Gevaar voor water klasse 1 (D) (Zelfclassificatie): gevaar voor water klein
Niet onverdund of in grote hoeveelheden lozen in grondwater, in oppervlaktewater of in de riolering.
schadelijk voor in het water levende organismen
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA** UN1993
- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**
- **ADR** 1993 BRANDBARE VLOEISTOF, N.E.G. (ETHANOL (ETHYLALCOHOL), CHLOORWATERSTOFZUUR)
- **IMDG** FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT
- **IATA** FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID)

(Vervolg op blz. 8)

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datum van de druk: 29.12.2020

Herziening van: 29.12.2020

Handelsnaam: MILLER'S ELASTIC STAIN

(Vervolg van blz. 7)

· **14.3 Transportgevarenklasse(n)**

· **ADR**



· **klasse** 3 Brandbare vloeistoffen
 · **Etiket** 3+8

· **IMDG**



· **Class** 3 Brandbare vloeistoffen
 · **Label** 3/8

· **IATA**



· **Class** 3 Brandbare vloeistoffen
 · **Label** 3 (8)

· **14.4 Verpakkingsgroep:**

· **ADR, IMDG, IATA** II

· **14.5 Milieugevaren:**

· **Marine pollutant:** Produkt bevat milieugevaarlijke stoffen: resorcinol

Symbool (vis en boom)

· **14.6 Bijzondere voorzorgen voor de gebruiker**

Waarschuwing: Brandbare vloeistoffen

· **Gevaarsidentificatienummer (Kemler-getal):**

338

· **EMS-nummer:**

F-E,S-E

· **Segregation groups**

Acids

· **Stowage Category**

B

· **14.7 Vervoer in bulk overeenkomstig bijlage II bij**

Marpol en de IBC-code

Niet bruikbaar.

· **Transport/verdere gegevens:**

· **ADR**

· **Beperkte hoeveelheden (LQ)**

1L

· **Uitgezonderde hoeveelheden (EQ)**

Code: E2

Grootste netto hoeveelheid per binnenverpakking: 30 ml

Grootste netto hoeveelheid per buitenverpakking: 500 ml

· **Vervoerscategorie**

2

· **Tunnelbeperkingscode**

D/E

· **IMDG**

· **Limited quantities (LQ)**

1L

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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· VN "Model Regulation":	UN 1993 BRANDBARE VLOEISTOF, N.E.G. (ETHANOL (ETHYLALCOHOL), CHLOORWATERSTOFZUUR), 3 (8), II

RUBRIEK 15: Regelgeving

· 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

· SZW-lijst van kankerverwekkende stoffen

64-17-5	ethanol	
548-62-9	[4-[4,4'-bis(dimethylamino)benzhydrylideen]cyclohexa-2,5-dieen-1-ylideen] dimethylammoniumchloride	

· SZW-lijst van mutagene stoffen

geen der bestanddelen staat op de lijst.

· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid

64-17-5	ethanol	IA
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· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling

64-17-5	ethanol	IA
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· NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding

64-17-5	ethanol	x
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· Lijst Zeer Zorgwekkende Stoffen (ZZS)

548-62-9	[4-[4,4'-bis(dimethylamino)benzhydrylideen]cyclohexa-2,5-dieen-1-ylideen] dimethylammoniumchloride	
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· Lijst van Potentieel Zeer Zorgwekkende Stoffen

108-46-3	resorcinol	
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· Richtlijn 2012/18/EU

· **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** geen der bestanddelen staat op de lijst.

· **Seveso-categorie P5c ONTVLAMBARE VLOEISTOFFEN**

· **Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen 5.000 t**

· **Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen 50.000 t**

· **Verordening (EG) nr. 1907/2006 BIJLAGE XVII Beperkingsvoorwaarden: 3, 69, 72**

· Richtlijn 2011/65/EU betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur - Bijlage II

geen der bestanddelen staat op de lijst.

· Nationale voorschriften:

· Gevaarklasse v. water:

Waterbezwaarlijkheid (NL): Z(1) niet afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/mutageniteit/ reprotoxiciteit/bioaccumulerend vermogen/ toxiciteit of persistentie)

· Aanvullende voorschriften, beperkingen en verbodsverordeningen

· Zeer zorgwekkende stoffen (SVHC) volgens REACH, artikel 57

548-62-9	[4-[4,4'-bis(dimethylamino)benzhydrylideen]cyclohexa-2,5-dieen-1-ylideen] dimethylammoniumchloride	
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· **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

· Relevante zinnen

- H225 Licht ontvlambare vloeistof en damp.
- H302 Schadelijk bij inslikken.
- H312 Schadelijk bij contact met de huid.
- H314 Veroorzaakt ernstige brandwonden en oogletsel.
- H315 Veroorzaakt huidirritatie.
- H318 Veroorzaakt ernstig oogletsel.
- H319 Veroorzaakt ernstige oogirritatie.
- H332 Schadelijk bij inademing.
- H335 Kan irritatie van de luchtwegen veroorzaken.
- H351 Verdacht van het veroorzaken van kanker.
- H370 Veroorzaakt schade aan organen.
- H400 Zeer giftig voor in het water levende organismen.
- H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.

· Afkortingen en acroniemen:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Ontvlambare vloeistoffen – Categorie 2
- Acute Tox. 4: Acute toxiciteit - oraal – Categorie 4
- Skin Corr. 1B: Huidcorrosie/irritatie – Categorie 1B
- Skin Irrit. 2: Huidcorrosie/irritatie – Categorie 2
- Eye Dam. 1: Ernstig oogletsel/oogirritatie – Categorie 1
- Eye Irrit. 2: Ernstig oogletsel/oogirritatie – Categorie 2
- Carc. 2: Kankerverwekkendheid – Categorie 2
- STOT SE 1: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 1
- STOT SE 2: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 2
- STOT SE 3: Specifieke doelorgaantoxiciteit bij eenmalige blootstelling – Categorie 3
- Aquatic Acute 1: Gevaar voor het aquatisch milieu - acuut aquatisch gevaar – Categorie 1
- Aquatic Chronic 1: Gevaar voor het aquatisch milieu - aquatisch gevaar op lange termijn – Categorie 1
- Aquatic Chronic 3: Gevaar voor het aquatisch milieu - aquatisch gevaar op lange termijn – Categorie 3

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RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- **1.1 Identificateur de produit**
- **Nom du produit:** MILLER'S ELASTIC STAIN
- **Code du produit:** 26076-05, 26076-10
- **UFI:** TA03-C01J-Y00H-V41H
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**
Pas d'autres informations importantes disponibles.
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

RUBRIQUE 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS02 flamme

Flam. Liq. 2 H225 Liquide et vapeurs très inflammables.



GHS08 danger pour la santé

STOT SE 2 H371 Risque présumé d'effets graves pour le système nerveux central et les organes visuels.

Aquatic Chronic 3 H412 Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** Le produit est classifié et étiqueté selon le règlement CLP.
- **Pictogrammes de danger**



GHS02



GHS08

- **Mention d'avertissement** Danger
- **Composants dangereux déterminants pour l'étiquetage:**
méthanol
- **Mentions de danger**
H225 Liquide et vapeurs très inflammables.
H371 Risque présumé d'effets graves pour le système nerveux central et les organes visuels.
H412 Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.

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· Conseils de prudence

- P210 Tenir à l'écart de la chaleur, des surfaces chaudes, des étincelles, des flammes nues et de toute autre source d'inflammation. Ne pas fumer.
- P241 Utiliser du matériel [électrique/de ventilation/d'éclairage] antidéflagrant.
- P260 Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.
- P303+P361+P353 EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les vêtements contaminés. Rincer la peau à l'eau [ou se doucher].
- P405 Garder sous clef.
- P501 Éliminer le contenu/réceptacle conformément à la réglementation locale/régionale/nationale/internationale.

· 2.3 Autres dangers

· Résultats des évaluations PBT et vPvB

· **PBT:** Non applicable.

· **vPvB:** Non applicable.

RUBRIQUE 3: Composition/informations sur les composants

· 3.2 Caractérisation chimique: Mélanges

· **Description:** Mélange des substances mentionnées à la suite avec des additifs non dangereux.

· Composants dangereux:

CAS: 64-17-5 EINECS: 200-578-6	éthanol Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	méthanol Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 108-46-3 EINECS: 203-585-2	résorcinol Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2,5%
CAS: 7647-01-0 EINECS: 231-595-7	chlorure d'hydrogène Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335	≤2,5%
CAS: 548-62-9 EINECS: 208-953-6	C.I. Violet Base 3 Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	≤2,5%

· SVHC

548-62-9 C.I. Violet Base 3

· **Indications complémentaires:** Pour le libellé des phrases de risque citées, se référer au chapitre 16.

RUBRIQUE 4: Premiers secours

· 4.1 Description des premiers secours

· Remarques générales:

Les symptômes d'intoxication peuvent apparaître après de nombreuses heures seulement; une surveillance médicale est donc nécessaire au moins 48 heures après un accident.

· Après inhalation:

Donner de l'air frais. Assistance respiratoire si nécessaire. Tenir le malade au chaud. Si les troubles persistent, consulter un médecin.

En cas d'inconscience, coucher et transporter la personne en position latérale stable.

· **Après contact avec la peau:** Laver immédiatement à l'eau et au savon et bien rincer.

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- **Après contact avec les yeux:**
Rincer les yeux, sous l'eau courante, pendant plusieurs minutes, en écartant bien les paupières.
- **Après ingestion:** Si les troubles persistent, consulter un médecin.
- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**
Pas d'autres informations importantes disponibles.

RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:** CO₂, sable, poudre d'extinction. Ne pas utiliser d'eau.
- **Produits extincteurs déconseillés pour des raisons de sécurité:** Jet d'eau à grand débit
- **5.2 Dangers particuliers résultant de la substance ou du mélange**
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Porter un appareil de protection respiratoire.

RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence**
Porter un équipement de sécurité. Eloigner les personnes non protégées.
- **6.2 Précautions pour la protection de l'environnement:**
En cas de pénétration dans les eaux ou les égouts, avvertir les autorités compétentes.
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**
Recueillir les liquides à l'aide d'un produit absorbant (sable, kieselguhr, neutralisant d'acide, liant universel, sciure).
Évacuer les matériaux contaminés en tant que déchets conformément au point 13.
Assurer une aération suffisante.
Ne pas rincer à l'eau ou aux produits nettoyants aqueux.
- **6.4 Référence à d'autres rubriques**
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.
Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

RUBRIQUE 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger**
Veiller à une bonne ventilation/aspiration du poste de travail.
Éviter la formation d'aérosols.
- **Préventions des incendies et des explosions:**
Tenir à l'abri des sources d'inflammation - ne pas fumer.
Tenir à l'abri de la chaleur.
Prendre des mesures contre les charges électrostatiques.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Stocker dans un endroit frais.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:**
Tenir les emballages hermétiquement fermés.
Stocker au frais et au sec dans des fûts bien fermés.

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Protéger de la forte chaleur et du rayonnement direct du soleil.

· **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

· **Indications complémentaires pour l'agencement des installations techniques:**

Sans autre indication, voir point 7.

· **8.1 Paramètres de contrôle**

· **Composants présentant des valeurs-seuil à surveiller par poste de travail:**

64-17-5 éthanol

VLEP	Valeur momentanée: 9500 mg/m ³ , 5000 ppm Valeur à long terme: 1900 mg/m ³ , 1000 ppm
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67-56-1 méthanol

VLEP	Valeur momentanée: 1300 mg/m ³ , 1000 ppm Valeur à long terme: 260 mg/m ³ , 200 ppm risque de pénétration percutanée, (11)
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108-46-3 résorcinol

VLEP	Valeur à long terme: 45 mg/m ³ , 10 ppm risque de pénétration percutanée
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7647-01-0 chlorure d'hydrogène

VLEP	Valeur momentanée: 7,6 mg/m ³ , 5 ppm
------	--

· **Remarques supplémentaires:**

Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

· **8.2 Contrôles de l'exposition**

· **Equipement de protection individuel:**

· **Mesures générales de protection et d'hygiène:**

Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.

Retirer immédiatement les vêtements souillés ou humectés.

Se laver les mains avant les pauses et en fin de travail.

Eviter tout contact avec la peau.

Eviter tout contact avec les yeux et avec la peau.

· **Protection respiratoire:**

En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.

· **Protection des mains:**



Gants de protection

Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.

À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.

Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.

· **Matériau des gants**

Le choix de gants appropriés dépend non seulement du matériau, mais aussi d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre. Puisque le produit représente une préparation composée de plusieurs substances, la résistance des matériaux des gants ne peut pas être calculée à l'avance et doit, alors, être contrôlée avant l'utilisation.

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- **Temps de pénétration du matériau des gants**
Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.
- **Protection des yeux:**



Lunettes de protection hermétiques

RUBRIQUE 9: Propriétés physiques et chimiques

· 9.1 Informations sur les propriétés physiques et chimiques essentielles

· Indications générales

· Aspect:

· Forme:

Liquide

· Couleur:

Bleu foncé

· Odeur:

Caractéristique

· Seuil olfactif:

Non déterminé.

· valeur du pH:

Non déterminé.

· Changement d'état

· Point de fusion/point de congélation:

Non déterminé.

· Point initial d'ébullition et intervalle d'ébullition:

78 °C

· Point d'éclair

13 °C

· Inflammabilité (solide, gaz):

Non applicable.

· Température d'inflammation:

425 °C

· Température de décomposition:

Non déterminé.

· Température d'auto-inflammabilité:

Le produit ne s'enflamme pas spontanément.

· Propriétés explosives:

Le produit n'est pas explosif; toutefois, des mélanges explosifs vapeur-air peuvent se former.

· Limites d'explosion:

· Inférieure:

3,5 Vol %

· Supérieure:

15 Vol %

· Pression de vapeur à 20 °C:

59 hPa

· Densité:

Non déterminée.

· Densité relative

Non déterminé.

· Densité de vapeur:

Non déterminé.

· Taux d'évaporation:

Non déterminé.

· Solubilité dans/miscibilité avec

· l'eau:

Pas ou peu miscible

· Coefficient de partage: n-octanol/eau:

Non déterminé.

· Viscosité:

· Dynamique:

Non déterminé.

· Cinématique:

Non déterminé.

· Teneur en solvants:

· Solvants organiques:

83,7 %

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· Eau:	4,4 %
· VOC (CE)	83,70 %
· Teneur en substances solides:	2,0 %
· 9.2 Autres informations	Pas d'autres informations importantes disponibles.

RUBRIQUE 10: Stabilité et réactivité

- **10.1 Réactivité** Pas d'autres informations importantes disponibles.
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.
- **10.3 Possibilité de réactions dangereuses** Aucune réaction dangereuse connue.
- **10.4 Conditions à éviter** Pas d'autres informations importantes disponibles.
- **10.5 Matières incompatibles:** Pas d'autres informations importantes disponibles.
- **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

RUBRIQUE 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

· **Valeurs LD/LC50 déterminantes pour la classification:**

67-56-1 méthanol

Oral	LD50	5.628 mg/kg (rat)
Dermique	LD50	15.800 mg/kg (lapin)

548-62-9 C.I. Violet Base 3

Oral	LD50	420 mg/kg (rat)
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- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Lésions oculaires graves/irritation oculaire**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Sensibilisation respiratoire ou cutanée**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagenicité sur les cellules germinales**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Cancérogénicité** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité pour la reproduction**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition unique**
Risque présumé d'effets graves pour le système nerveux central et les organes visuels.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.

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- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Effets écotoxiques:**
- **Remarque:** Nocif pour les poissons.
- **Autres indications écologiques:**
- **Indications générales:**
 Catégorie de pollution des eaux 1 (D) (Classification propre): peu polluant
 Ne pas laisser le produit, non dilué ou en grande quantité, pénétrer la nappe phréatique, les eaux ou les canalisations.
 Nocif pour les organismes aquatiques.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.
- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.

RUBRIQUE 14: Informations relatives au transport

- | | |
|--|--|
| <ul style="list-style-type: none"> · 14.1 Numéro ONU · ADR, IMDG, IATA | UN1993 |
| <ul style="list-style-type: none"> · 14.2 Désignation officielle de transport de l'ONU · ADR · IMDG · IATA | 1993 LIQUIDE INFLAMMABLE, N.S.A. (ÉTHANOL (ALCOOL ÉTHYLIQUE), ACIDE CHLORHYDRIQUE)
FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT
FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID) |
| <ul style="list-style-type: none"> · 14.3 Classe(s) de danger pour le transport · ADR | 3 Liquides inflammables.
3+8 |



- **Classe**
- **Étiquette**

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· **IMDG**· **Class**

3 Liquides inflammables.

· **Label**

3/8

· **IATA**· **Class**

3 Liquides inflammables.

· **Label**

3 (8)

· **14.4 Groupe d'emballage**· **ADR, IMDG, IATA**

II

· **14.5 Dangers pour l'environnement:**

Le produit contient matières dangereuses pour l'environnement : résorcinol

· **Marine Pollutant:**

Signe conventionnel (poisson et arbre)

· **14.6 Précautions particulières à prendre par l'utilisateur**

Attention: Liquides inflammables.

· **Numéro d'identification du danger (Indice Kemler):**

338

· **No EMS:**

F-E,S-E

· **Segregation groups**

Acids

· **Stowage Category**

B

· **14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC**

Non applicable.

· **Indications complémentaires de transport:**· **ADR**· **Quantités limitées (LQ)**

1L

· **Quantités exceptées (EQ)**

Code: E2

Quantité maximale nette par emballage intérieur: 30 ml

Quantité maximale nette par emballage extérieur: 500

ml

· **Catégorie de transport**

2

· **Code de restriction en tunnels**

D/E

· **IMDG**· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **"Règlement type" de l'ONU:**

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RUBRIQUE 15: Informations relatives à la réglementation

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- **Directive 2012/18/UE**
- **Substances dangereuses désignées - ANNEXE I** Aucun des composants n'est compris.
- **Catégorie SEVESO P5c LIQUIDES INFLAMMABLES**
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas** 5.000 t
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut** 50.000 t
- **RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII** Conditions de limitation: 3, 69, 72

- **Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques – Annexe II**

Aucun des composants n'est compris.

- **Prescriptions nationales:**
- **Autres prescriptions, restrictions et règlements d'interdiction**

- **Substances extrêmement préoccupantes (SVHC) selon REACH, article 57**

548-62-9 C.I. Violet Base 3

- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

- **Phrases importantes**
- H225 Liquide et vapeurs très inflammables.
- H302 Nocif en cas d'ingestion.
- H312 Nocif par contact cutané.
- H314 Provoque des brûlures de la peau et de graves lésions des yeux.
- H315 Provoque une irritation cutanée.
- H318 Provoque de graves lésions des yeux.
- H319 Provoque une sévère irritation des yeux.
- H332 Nocif par inhalation.
- H335 Peut irriter les voies respiratoires.
- H351 Susceptible de provoquer le cancer.
- H370 Risque avéré d'effets graves pour les organes.
- H400 Très toxique pour les organismes aquatiques.
- H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

- **Acronymes et abréviations:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Liquides inflammables – Catégorie 2
 Acute Tox. 4: Toxicité aiguë - voie orale – Catégorie 4

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*Skin Corr. 1B: Corrosion cutanée/irritation cutanée – Catégorie 1B**Skin Irrit. 2: Corrosion cutanée/irritation cutanée – Catégorie 2**Eye Dam. 1: Lésions oculaires graves/irritation oculaire – Catégorie 1**Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2**Carc. 2: Cancérogénicité – Catégorie 2**STOT SE 1: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 1**STOT SE 2: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 2**STOT SE 3: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 3**Aquatic Acute 1: Dangers pour le milieu aquatique- toxicité aiguë pour le milieu aquatique – Catégorie 1**Aquatic Chronic 1: Dangers pour le milieu aquatique- toxicité à long terme pour le milieu aquatique – Catégorie 1**Aquatic Chronic 3: Dangers pour le milieu aquatique- toxicité à long terme pour le milieu aquatique – Catégorie 3*

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ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

- **1.1 Produktidentifikator**
- **Handelsname:** MILLER'S ELASTIC STAIN
- **Artikelnummer:** 26076-05, 26076-10
- **UFI:** TA03-C01J-Y00H-V41H
- **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**
Keine weiteren relevanten Informationen verfügbar.
- **Verwendung des Stoffes / des Gemisches** Laborchemikalien
- **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
- **Hersteller/Lieferant:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com

Science Services GmbH
Unterhachinger Str. 75
81737 München Germany

Tel: +49(0)89 18 93 668-0
safety@scienceservices.de

Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, www.toxinfo.org
Osterreich: +43 1406 43 43, Gesundheit Osterreich GmbH, 24 h
- **Auskunfteibereich:** Product safety department
- **1.4 Notrufnummer:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

ABSCHNITT 2: Mögliche Gefahren

- **2.1 Einstufung des Stoffs oder Gemischs**
- **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS02 Flamme

Flam. Liq. 2 H225 Flüssigkeit und Dampf leicht entzündbar.



GHS08 Gesundheitsgefahr

STOT SE 2 H371 Kann das zentrale Nervensystem und die Sehorgane schädigen.

Aquatic Chronic 3 H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

- **2.2 Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**
Das Produkt ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

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· Gefahrenpiktogramme

GHS02 GHS08

· Signalwort Gefahr**· Gefahrbestimmende Komponenten zur Etikettierung:**

Methanol

· Gefahrenhinweise

H225 Flüssigkeit und Dampf leicht entzündbar.

H371 Kann das zentrale Nervensystem und die Sehorgane schädigen.

H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

· Sicherheitshinweise

P210 Von Hitze, heißen Oberflächen, Funken, offenen Flammen und anderen Zündquellen fernhalten. Nicht rauchen.

P241 Explosionsgeschützte [elektrische/Lüftungs-/Beleuchtungs-] Geräte verwenden.

P260 Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen.

P303+P361+P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen [oder duschen].

P405 Unter Verschluss aufbewahren.

P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.

· 2.3 Sonstige Gefahren**· Ergebnisse der PBT- und vPvB-Beurteilung****· PBT:** Nicht anwendbar.**· vPvB:** Nicht anwendbar.**ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen****· 3.2 Chemische Charakterisierung: Gemische****· Beschreibung:** Gemisch aus nachfolgend angeführten Stoffen mit ungefährlichen Beimengungen.**· Gefährliche Inhaltsstoffe:**

CAS: 64-17-5 EINECS: 200-578-6	Ethanol Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	Methanol Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 108-46-3 EINECS: 203-585-2	Resorcin Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2,5%
CAS: 7647-01-0 EINECS: 231-595-7	Salzsäure Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335	≤2,5%
CAS: 548-62-9 EINECS: 208-953-6	Methylviolett 10 B Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	≤2,5%

· SVHC

548-62-9 Methylviolett 10 B

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· **Zusätzliche Hinweise:** Der Wortlaut der angeführten Gefahrenhinweise ist dem Abschnitt 16 zu entnehmen.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

· **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**

· **Allgemeine Hinweise:**

Vergiftungssymptome können erst nach vielen Stunden auftreten, deshalb ärztliche Überwachung mindestens 48 Stunden nach einem Unfall.

· **Nach Einatmen:**

Frischlufzufuhr, gegebenenfalls Atemspende, Wärme. Bei anhaltenden Beschwerden Arzt konsultieren.

Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.

· **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.

· **Nach Augenkontakt:** Augen bei geöffnetem Lidspalt mehrere Minuten mit fließendem Wasser spülen.

· **Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.

· **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**

Keine weiteren relevanten Informationen verfügbar.

· **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**

Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

· **5.1 Löschmittel**

· **Geeignete Löschmittel:** CO₂, Sand, Löschpulver. Kein Wasser verwenden.

· **Aus Sicherheitsgründen ungeeignete Löschmittel:** Wasser im Vollstrahl

· **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**

Keine weiteren relevanten Informationen verfügbar.

· **5.3 Hinweise für die Brandbekämpfung**

· **Besondere Schutzausrüstung:** Atemschutzgerät anlegen.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

· **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
Schutzausrüstung tragen. Ungeschützte Personen fernhalten.

· **6.2 Umweltschutzmaßnahmen:**

Bei Eindringen in Gewässer oder Kanalisation zuständige Behörden benachrichtigen.

Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.

· **6.3 Methoden und Material für Rückhaltung und Reinigung:**

Mit flüssigkeitsbindendem Material (Sand, Kieselgur, Säurebinder, Universalbinder, Sägemehl) aufnehmen.

Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.

Für ausreichende Lüftung sorgen.

Nicht mit Wasser oder wäßrigen Reinigungsmitteln wegspülen.

· **6.4 Verweis auf andere Abschnitte**

Informationen zur sicheren Handhabung siehe Abschnitt 7.

Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.

Informationen zur Entsorgung siehe Abschnitt 13.

ABSCHNITT 7: Handhabung und Lagerung

· **7.1 Schutzmaßnahmen zur sicheren Handhabung**

Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.

Aerosolbildung vermeiden.

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- **Hinweise zum Brand- und Explosionsschutz:**
Zündquellen fernhalten - nicht rauchen.
Vor Hitze schützen.
Maßnahmen gegen elektrostatische Aufladung treffen.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** An einem kühlen Ort lagern.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:**
Behälter dicht geschlossen halten.
In gut verschlossenen Gebinden kühl und trocken lagern.
Vor Hitze und direkter Sonnenbestrahlung schützen.
- **Lagerklasse:**
- **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** Entzündbare Flüssigkeiten
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.
- **8.1 Zu überwachende Parameter**

Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:
64-17-5 Ethanol

 AGW Langzeitwert: 380 mg/m³, 200 ml/m³
4(II);DFG, Y

67-56-1 Methanol

 AGW Langzeitwert: 130 mg/m³, 100 ml/m³
2(II);DFG, EU, H, Y

108-46-3 Resorcin

 AGW Langzeitwert: 20 E mg/m³, 4 ml/m³
1(I);AGS, EU, Sh, Y, H, 11

7647-01-0 Salzsäure

 AGW Langzeitwert: 3 mg/m³, 2 ml/m³
2(I);DFG, EU, Y

Bestandteile mit biologischen Grenzwerten:
67-56-1 Methanol

 BGW 30 mg/l
 Untersuchungsmaterial: Urin
 Probenahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende
 Parameter: Methanol

- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

- **8.2 Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:**
Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.
Besmutzte, getränkte Kleidung sofort ausziehen.
Vor den Pausen und bei Arbeitsende Hände waschen.

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*Berührung mit der Haut vermeiden.**Berührung mit den Augen und der Haut vermeiden.***· Atemschutz:***Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition unluftunabhängiges Atemschutzgerät verwenden.***· Handschutz:**

Schutzhandschuhe

*Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.**Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.***· Handschuhmaterial***Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Da das Produkt eine Zubereitung aus mehreren Stoffen darstellt, ist die Beständigkeit von Handschuhmaterialien nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.***· Durchdringungszeit des Handschuhmaterials***Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.***· Augenschutz:**

Dichtschließende Schutzbrille

ABSCHNITT 9: Physikalische und chemische Eigenschaften

· 9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**· Allgemeine Angaben****· Aussehen:**

- | | |
|---------------------------|------------------|
| · Form: | Flüssigkeit |
| · Farbe: | Dunkelblau |
| · Geruch: | Charakteristisch |
| · Geruchsschwelle: | Nicht bestimmt. |

· pH-Wert:	Nicht bestimmt.
-------------------	-----------------

· Zustandsänderung

- | | |
|--|-----------------|
| · Schmelzpunkt/Gefrierpunkt: | Nicht bestimmt. |
| · Siedebeginn und Siedebereich: | 78 °C |

· Flammpunkt:	13 °C
----------------------	-------

· Entzündbarkeit (fest, gasförmig):	Nicht anwendbar.
--	------------------

· Zündtemperatur:	425 °C
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· Zersetzungstemperatur:	Nicht bestimmt.
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· Selbstentzündungstemperatur:	Das Produkt ist nicht selbstentzündlich.
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· Explosive Eigenschaften:	Das Produkt ist nicht explosionsgefährlich, jedoch ist die Bildung explosionsgefährlicher Dampf-/Luftgemische möglich.
· Explosionsgrenzen:	
· Untere:	3,5 Vol %
· Obere:	15 Vol %
· Dampfdruck bei 20 °C:	59 hPa
· Dichte:	Nicht bestimmt.
· Relative Dichte	Nicht bestimmt.
· Dampfdichte	Nicht bestimmt.
· Verdampfungsgeschwindigkeit	Nicht bestimmt.
· Löslichkeit in / Mischbarkeit mit	
· Wasser:	Nicht bzw. wenig mischbar.
· Verteilungskoeffizient: n-Octanol/Wasser:	Nicht bestimmt.
· Viskosität:	
· Dynamisch:	Nicht bestimmt.
· Kinematisch:	Nicht bestimmt.
· Lösemittelgehalt:	
· Organische Lösemittel:	83,7 %
· Wasser:	4,4 %
· VOC (EU)	83,70 %
· Festkörpergehalt:	2,0 %
· 9.2 Sonstige Angaben	Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

· Einstufungsrelevante LD/LC50-Werte:		
67-56-1 Methanol		
Oral	LD50	5.628 mg/kg (rat)
Dermal	LD50	15.800 mg/kg (rabbit)
548-62-9 Methylviolett 10 B		
Oral	LD50	420 mg/kg (rat)

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- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Schwere Augenschädigung/-reizung** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Sensibilisierung der Atemwege/Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**
Kann das zentrale Nervensystem und die Sehorgane schädigen.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Ökotoxische Wirkungen:**
- **Bemerkung:** Schädlich für Fische.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**
Wassergefährdungsklasse 1 (Selbsteinstufung): schwach wassergefährdend
Nicht unverdünnt bzw. in größeren Mengen in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen.
schädlich für Wasserorganismen
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.

ABSCHNITT 14: Angaben zum Transport

- **14.1 UN-Nummer**
- **ADR, IMDG, IATA** UN1993

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· **14.2 Ordnungsgemäße UN-Versandbezeichnung**
 · **ADR** 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (ETHANOL (ETHYLALKOHOL), CHLORWASSERSTOFFSÄURE)
 · **IMDG** FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT
 · **IATA** FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID)

· **14.3 Transportgefahrenklassen**· **ADR**

· **Klasse** 3 Entzündbare flüssige Stoffe
 · **Gefahrzettel** 3+8

· **IMDG**

· **Class** 3 Entzündbare flüssige Stoffe
 · **Label** 3/8

· **IATA**

· **Class** 3 Entzündbare flüssige Stoffe
 · **Label** 3 (8)

· **14.4 Verpackungsgruppe**· **ADR, IMDG, IATA** II

· **14.5 Umweltgefahren:** Das Produkt enthält umweltgefährdende Stoffe: Resorcin
 · **Marine pollutant:** Symbol (Fisch und Baum)

· **14.6 Besondere Vorsichtsmaßnahmen für den Verwender**

Achtung: Entzündbare flüssige Stoffe

· **Nummer zur Kennzeichnung der Gefahr (Kemler-Zahl):** 338· **EMS-Nummer:** F-E,S-E· **Segregation groups** Acids· **Stowage Category** B

· **14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code** Nicht anwendbar.

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· Transport/weitere Angaben:**· ADR****· Begrenzte Menge (LQ)**

1L

· Freigestellte Mengen (EQ)

Code: E2

Höchste Nettomenge je Innenverpackung: 30 ml

Höchste Nettomenge je Außenverpackung: 500 ml

· Beförderungskategorie

2

· Tunnelbeschränkungscode

D/E

· IMDG**· Limited quantities (LQ)**

1L

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":UN 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G.
(E T H A N O L (E T H Y L A L K O H O L) ,
CHLORWASSERSTOFFSÄURE), 3 (8), II**ABSCHNITT 15: Rechtsvorschriften****· 15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch****· Richtlinie 2012/18/EU****· Namentlich aufgeführte gefährliche Stoffe - ANHANG I** Keiner der Inhaltsstoffe ist enthalten.**· Seveso-Kategorie P5c ENTZÜNDBARE FLÜSSIGKEITEN****· Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse** 5.000 t**· Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse** 50.000 t**· VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII** Beschränkungsbedingungen: 3, 69, 72**· Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II**

Keiner der Inhaltsstoffe ist enthalten.

· Nationale Vorschriften:**· Technische Anleitung Luft:**

Klasse	Anteil in %
Wasser	4,4
I	4,2
NK	79,5

· Wassergefährdungsklasse: WGK 1 (Selbsteinstufung): schwach wassergefährdend.**· Sonstige Vorschriften, Beschränkungen und Verbotsverordnungen****· Besonders besorgniserregende Stoffe (SVHC) gemäß REACH, Artikel 57**

548-62-9 Methylviolett 10 B

· 15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

DE

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ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· **Relevante Sätze**

- H225 Flüssigkeit und Dampf leicht entzündbar.
- H302 Gesundheitsschädlich bei Verschlucken.
- H312 Gesundheitsschädlich bei Hautkontakt.
- H314 Verursacht schwere Verätzungen der Haut und schwere Augenschäden.
- H315 Verursacht Hautreizungen.
- H318 Verursacht schwere Augenschäden.
- H319 Verursacht schwere Augenreizung.
- H332 Gesundheitsschädlich bei Einatmen.
- H335 Kann die Atemwege reizen.
- H351 Kann vermutlich Krebs erzeugen.
- H370 Schädigt die Organe.
- H400 Sehr giftig für Wasserorganismen.
- H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.

· **Abkürzungen und Akronyme:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Entzündbare Flüssigkeiten – Kategorie 2
- Acute Tox. 4: Akute Toxizität - oral – Kategorie 4
- Skin Corr. 1B: Hautreizende/-ätzende Wirkung – Kategorie 1B
- Skin Irrit. 2: Hautreizende/-ätzende Wirkung – Kategorie 2
- Eye Dam. 1: Schwere Augenschädigung/Augenreizung – Kategorie 1
- Eye Irrit. 2: Schwere Augenschädigung/Augenreizung – Kategorie 2
- Carc. 2: Karzinogenität – Kategorie 2
- STOT SE 1: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 1
- STOT SE 2: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 2
- STOT SE 3: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 3
- Aquatic Acute 1: Gewässergefährdend - akut gewässergefährdend – Kategorie 1
- Aquatic Chronic 1: Gewässergefährdend - langfristig gewässergefährdend – Kategorie 1
- Aquatic Chronic 3: Gewässergefährdend - langfristig gewässergefährdend – Kategorie 3

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SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

- **1.1 Identificatore del prodotto**
- **Denominazione commerciale:** MILLER'S ELASTIC STAIN
- **Articolo numero:** 26076-05, 26076-10
- **UFI:** TA03-C01J-Y00H-V41H
- **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**
Non sono disponibili altre informazioni.
- **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio
- **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**
- **Produttore/fornitore:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Società Italiana Chimici**
Via Rio Nell Ellba 140
00138 Rome, Italy
Tel: 39 06 8800211
Fax: 39 30 06 8815313
Web: www.sichim.com
- **Informazioni fornite da:** Product safety department
- **1.4 Numero telefonico di emergenza:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

SEZIONE 2: Identificazione dei pericoli

- **2.1 Classificazione della sostanza o della miscela**
- **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS02 fiamma

Flam. Liq. 2 H225 Liquido e vapori facilmente infiammabili.



GHS08 pericolo per la salute

STOT SE 2 H371 Può provocare danni al sistema nervoso centrale e gli organi visivi.

Aquatic Chronic 3 H412 Nocivo per gli organismi acquatici con effetti di lunga durata.

- **2.2 Elementi dell'etichetta**
- **Etichettatura secondo il regolamento (CE) n. 1272/2008**
Il prodotto è classificato ed etichettato conformemente al regolamento CLP.
- **Pittogrammi di pericolo**



GHS02



GHS08

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· **Avvertenza Pericolo**· **Componenti pericolosi che ne determinano l'etichettatura:**

metanolo

· **Indicazioni di pericolo**

H225 Liquido e vapori facilmente infiammabili.

H371 Può provocare danni al sistema nervoso centrale e gli organi visivi.

H412 Nocivo per gli organismi acquatici con effetti di lunga durata.

· **Consigli di prudenza**

P210 Tenere lontano da fonti di calore, superfici calde, scintille, fiamme libere o altre fonti di accensione. Non fumare.

P241 Utilizzare impianti [elettrici/di ventilazione/d'illuminazione] a prova di esplosione.

P260 Non respirare la polvere/i fumi/i gas/la nebbia/i vapori/gli aerosol.

P303+P361+P353 IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle [o fare una doccia].

P405 Conservare sotto chiave.

P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.

· **2.3 Altri pericoli**· **Risultati della valutazione PBT e vPvB**· **PBT:** Non applicabile.· **vPvB:** Non applicabile.**SEZIONE 3: Composizione/informazioni sugli ingredienti**· **3.2 Caratteristiche chimiche: Miscela**· **Descrizione:** Miscela delle seguenti sostanze con additivi non pericolosi.· **Sostanze pericolose:**

CAS: 64-17-5 EINECS: 200-578-6	etanolo Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	metanolo Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 108-46-3 EINECS: 203-585-2	resorcina Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2,5%
CAS: 7647-01-0 EINECS: 231-595-7	cloruro di idrogeno Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335	≤2,5%
CAS: 548-62-9 EINECS: 208-953-6	cloruro di [4-[4,4'-bis(dimetilammino)benzidriliden]cicloesa-2,5-dien-1-iliden]dimetilammonio Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	≤2,5%

· **SVHC**

548-62-9 cloruro di [4-[4,4'-bis(dimetilammino)benzidriliden]cicloesa-2,5-dien-1-iliden]dimetilammonio

· **Ulteriori indicazioni:** Il testo dell'avvertenza dei pericoli citati può essere appreso dal capitolo 16

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SEZIONE 4: Misure di primo soccorso

· **4.1 Descrizione delle misure di primo soccorso**

· **Indicazioni generali:**

I sintomi di avvelenamento possono comparire dopo molte ore, per tale motivo è necessaria la sorveglianza di un medico nelle 48 ore successive all'incidente.

· **Inalazione:**

Portare in zona ben areata, praticare eventualmente la respirazione artificiale, tenere al caldo. Se i disturbi persistono consultare il medico.

Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.

· **Contatto con la pelle:** Lavare immediatamente con acqua e sapone sciacquando accuratamente.

· **Contatto con gli occhi:** Lavare con acqua corrente per alcuni minuti tenendo le palpebre ben aperte.

· **Ingestione:** Se il dolore persiste consultare il medico.

· **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.

· **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**

Non sono disponibili altre informazioni.

SEZIONE 5: Misure antincendio

· **5.1 Mezzi di estinzione**

· **Mezzi di estinzione idonei:** CO₂, sabbia, polvere. Non usare acqua.

· **Mezzi di estinzione inadatti per motivi di sicurezza:** Getti d'acqua

· **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** Non sono disponibili altre informazioni.

· **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**

· **Mezzi protettivi specifici:** Indossare il respiratore.

SEZIONE 6: Misure in caso di rilascio accidentale

· **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza**

Indossare equipaggiamento protettivo. Allontanare le persone non equipaggiate.

· **6.2 Precauzioni ambientali:**

In caso di infiltrazione nei corpi d'acqua o nelle fognature avvertire le autorità competenti.

Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.

· **6.3 Metodi e materiali per il contenimento e per la bonifica:**

Raccogliere il liquido con materiale assorbente (sabbia, tripoli, legante di acidi, legante universale, segatura).

Smaltimento del materiale contaminato conformemente al punto 13.

Provvedere ad una sufficiente areazione.

Non dilavare con acqua o detergenti liquidi.

· **6.4 Riferimento ad altre sezioni**

Per informazioni relative ad una manipolazione sicura, vedere capitolo 7.

Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.

Per informazioni relative allo smaltimento vedere Capitolo 13.

SEZIONE 7: Manipolazione e immagazzinamento

· **7.1 Precauzioni per la manipolazione sicura**

Accurata ventilazione/aspirazione nei luoghi di lavoro.

Evitare la formazione di aerosol.

· **Indicazioni in caso di incendio ed esplosione:**

Tenere lontano da fonti di calore, non fumare.

Proteggere dal calore.

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Adottare provvedimenti contro cariche elettrostatiche.

- **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Conservare in ambiente fresco.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:**
Mantenere i recipienti ermeticamente chiusi.
Conservare in luogo fresco e asciutto in fusti ben chiusi.
Proteggere dal calore e dai raggi diretti del sole.
- **7.3 Usi finali particolari** Non sono disponibili altre informazioni.

SEZIONE 8: Controllo dell'esposizione/protezione individuale

- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.
- **8.1 Parametri di controllo**

· **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:**

64-17-5 etanolo

TWA Valore a breve termine: 1884 mg/m³, 1000 ppm
A3

67-56-1 metanolo

TWA Valore a breve termine: 328 mg/m³, 250 ppm
Valore a lungo termine: 262 mg/m³, 200 ppm
Cute, IBE
VL Valore a lungo termine: 260 mg/m³, 200 ppm
Pelle

108-46-3 resorcina

TWA Valore a breve termine: 90 mg/m³, 20 ppm
Valore a lungo termine: 45 mg/m³, 10 ppm
A4
VL Valore a lungo termine: 45 mg/m³, 10 ppm

7647-01-0 cloruro di idrogeno

TWA Limite Ceiling: 2,9 mg/m³, 2 ppm
A4
VL Valore a breve termine: 15 mg/m³, 10 ppm
Valore a lungo termine: 8 mg/m³, 5 ppm

· **Componenti con valori limite biologici:**

67-56-1 metanolo

IBE 15 mg/l
Campioni: urine
Momento del prelievo: a fine turno
Indicatore biologico: metanolo

· **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.

- **8.2 Controlli dell'esposizione**
- **Mezzi protettivi individuali:**
- **Norme generali protettive e di igiene del lavoro:**
Tenere lontano da cibo, bevande e foraggi.
Togliere immediatamente gli abiti contaminati.
Lavarsi le mani prima dell'intervallo o a lavoro terminato.

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*Evitare il contatto con la pelle.**Evitare il contatto con gli occhi e la pelle.***· Maschera protettiva:***Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.***· Guanti protettivi:**

Guanti protettivi

*Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.**A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.**Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.***· Materiale dei guanti***La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro. Poiché il prodotto rappresenta una formulazione di più sostanze, la stabilità dei materiali dei guanti non è calcolabile in anticipo e deve essere testata prima dell'impiego***· Tempo di permeazione del materiale dei guanti***Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.***· Occhiali protettivi:**

Occhiali protettivi a tenuta

SEZIONE 9: Proprietà fisiche e chimiche**· 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali****· Indicazioni generali****· Aspetto:***Liquido***· Forma:** *Blu scuro***· Colore:** *Caratteristico***· Odore:** *Non definito.***· Soglia olfattiva:** *Non definito.***· valori di pH:** *Non definito.***· Cambiamento di stato****· Punto di fusione/punto di congelamento:** *Non definito.***· Punto di ebollizione iniziale e intervallo di ebollizione:** *78 °C***· Punto di infiammabilità:** *13 °C***· Infiammabilità (solidi, gas):** *Non applicabile.***· Temperatura di accensione:** *425 °C***· Temperatura di decomposizione:** *Non definito.***· Temperatura di autoaccensione:** *Prodotto non autoinfiammabile.***· Proprietà esplosive:** *Prodotto non è esplosivo, è tuttavia possibile la formazione di miscele di vapori/aria esplosive.*

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· Limiti di infiammabilità:	
· Inferiore:	3,5 Vol %
· Superiore:	15 Vol %
· Tensione di vapore a 20 °C:	59 hPa
· Densità:	Non definito.
· Densità relativa	Non definito.
· Densità di vapore:	Non definito.
· Velocità di evaporazione	Non definito.
· Solubilità in/Miscibilità con acqua:	Poco e/o non miscibile.
· Coefficiente di ripartizione: n-ottanolo/acqua:	Non definito.
· Viscosità:	
· Dinamica:	Non definito.
· Cinematica:	Non definito.
· Tenore del solvente:	
· Solventi organici:	83,7 %
· Acqua:	4,4 %
· VOC (CE)	83,70 %
· Contenuto solido:	2,0 %
· 9.2 Altre informazioni	Non sono disponibili altre informazioni.

SEZIONE 10: Stabilità e reattività

- **10.1 Reattività** Non sono disponibili altre informazioni.
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.
- **10.3 Possibilità di reazioni pericolose** Non sono note reazioni pericolose.
- **10.4 Condizioni da evitare** Non sono disponibili altre informazioni.
- **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.
- **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

SEZIONE 11: Informazioni tossicologiche

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

· **Valori LD/LC50 rilevanti per la classificazione:**

67-56-1 metanolo

Orale	LD50	5.628 mg/kg (rat)
Cutaneo	LD50	15.800 mg/kg (rabbit)

548-62-9 cloruro di [4-[4,4'-bis(dimetilammino)benzidriliden]cicloesa-2,5-dien-1-iliden]dimetilammonio

Orale	LD50	420 mg/kg (rat)
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- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Lesioni oculari gravi/irritazioni oculari gravi**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

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Scheda di dati di sicurezza
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- **Sensibilizzazione respiratoria o cutanea**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Cancerogenicità** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità per la riproduzione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**
Può provocare danni al sistema nervoso centrale e gli organi visivi.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Effetti tossici per l'ambiente:**
- **Osservazioni:** Nocivo per i pesci.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**
Pericolosità per le acque classe 1 (D) (Autoclassificazione): poco pericoloso
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature non diluito o in grandi quantità.
nocivo per gli organismi acquatici
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

SEZIONE 14: Informazioni sul trasporto

- | | |
|---|---|
| · 14.1 Numero ONU | |
| · ADR, IMDG, IATA | UN1993 |
| · 14.2 Nome di spedizione dell'ONU | |
| · ADR | 1993 LIQUIDO INFIAMMABILE, N.A.S. (ETANOLO (ALCOL ETILICO), ACIDO CLORIDRICO) |

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· IMDG	<i>FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT</i>
· IATA	<i>FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID)</i>

· **14.3 Classi di pericolo connesso al trasporto**· **ADR**

· Classe	<i>3 Liquidi infiammabili</i>
· Etichetta	<i>3+8</i>

· **IMDG**

· Class	<i>3 Liquidi infiammabili</i>
· Label	<i>3/8</i>

· **IATA**

· Class	<i>3 Liquidi infiammabili</i>
· Label	<i>3 (8)</i>

· **14.4 Gruppo di imballaggio**

· ADR, IMDG, IATA	<i>II</i>
--------------------------	-----------

· **14.5 Pericoli per l'ambiente:***Il prodotto contiene materie pericolose per l'ambiente: resorcina*· **Marine pollutant:***Simbolo (pesce e albero)*· **14.6 Precauzioni speciali per gli utilizzatori***Attenzione: Liquidi infiammabili*· **N° identificazione pericolo (Numero Kemler):** 338· **Numero EMS:** *F-E, S-E*· **Segregation groups** *Acids*· **Stowage Category** *B*· **14.7 Trasporto di rifiuti secondo l'allegato II di MARPOL ed il codice IBC***Non applicabile.*· **Trasporto/ulteriori indicazioni:**· **ADR**· **Quantità limitate (LQ)** *1L*· **Quantità esenti (EQ)** *Codice: E2**Quantità massima netta per imballaggio interno: 30 ml**Quantità massima netta per imballaggio esterno: 500 ml*· **Categoria di trasporto** *2*

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· Codice di restrizione in galleria	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 LIQUIDO INFIAMMABILE, N.A.S. (ETANOLO (ALCOL ETILICO), ACIDO CLORIDRICO), 3 (8), II

SEZIONE 15: Informazioni sulla regolamentazione

- **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** Nessuno dei componenti è contenuto.
- **Categoria Seveso P5c** LIQUIDI INFIAMMABILI
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore** 5.000 t
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore** 50.000 t
- **REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII** Restrizioni: 3, 69, 72

- **Direttiva 2011/65/UE sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche - Allegato II**

Nessuno dei componenti è contenuto.

- **Disposizioni nazionali:**

- **Istruzione tecnica aria:**

Classe	quota in %
NC	83,7

- **Ulteriori disposizioni, limitazioni e decreti proibitivi**

- **Sostanze estremamente preoccupanti (SVHC) ai sensi della regolamento REACH, articolo 57**

548-62-9	cloruro di [4-[4,4'-bis(dimetilammino)benzidriliden]cicloesa-2,5-dien-1-iliden]dimetilammonio
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- **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

SEZIONE 16: Altre informazioni

I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.

- **Frasei rilevanti**

H225 Liquido e vapori facilmente infiammabili.
H302 Nocivo se ingerito.
H312 Nocivo per contatto con la pelle.
H314 Provoca gravi ustioni cutanee e gravi lesioni oculari.
H315 Provoca irritazione cutanea.
H318 Provoca gravi lesioni oculari.
H319 Provoca grave irritazione oculare.
H332 Nocivo se inalato.
H335 Può irritare le vie respiratorie.
H351 Sospettato di provocare il cancro.

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*H370 Provoca danni agli organi.**H400 Molto tossico per gli organismi acquatici.**H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.***· Abbreviazioni e acronimi:***ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**VOC: Volatile Organic Compounds (USA, EU)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Liquidi infiammabili – Categoria 2**Acute Tox. 4: Tossicità acuta per via orale – Categoria 4**Skin Corr. 1B: Corrosione/irritazione della pelle – Categoria 1B**Skin Irrit. 2: Corrosione/irritazione della pelle – Categoria 2**Eye Dam. 1: Gravi lesioni oculari/irritazione oculare – Categoria 1**Eye Irrit. 2: Gravi lesioni oculari/irritazione oculare – Categoria 2**Carc. 2: Cancerogenicità – Categoria 2**STOT SE 1: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 1**STOT SE 2: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 2**STOT SE 3: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 3**Aquatic Acute 1: Pericoloso per l'ambiente acquatico - pericolo acuto per l'ambiente acquatico – Categoria 1**Aquatic Chronic 1: Pericoloso per l'ambiente acquatico - pericolo a lungo termine per l'ambiente acquatico – Categoria 1**Aquatic Chronic 3: Pericoloso per l'ambiente acquatico - pericolo a lungo termine per l'ambiente acquatico – Categoria 3*

1 화학제품과 회사에 관한 정보

제품명: MILLER'S ELASTIC STAIN

· 제품명: MILLER'S ELASTIC STAIN

· 상품번호: 26076-05, 26076-10

해당해당해당 물질이나 혼합물의 관련 위험도 및 사용금지용도 추가적인 정보가 존재하지 않습니다.

· 제품의 권고 용도와 사용 형태에 제한 사항 없음

· 안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보

· 제조자/수입자/유통업체 정보정보

Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com

Samchang Commercial Co., Ltd.
Yeo Eui Do
PO Box 1110
Seoul, Korea
Tel: 82 2 703 3040
Fax: 82 2 717 3298

Daedok Science, Co. Ltd.
34141 E10 Korea Advanced Institute of Science
Guseong-Dong, Yuseong-gu, Daejeon,
Korea
Phone: 82 42 710 2091
Fax: 82 42 367 0005
Website: www.labsmro.com

· 추가적인 정보: 화학안전관리부 화학안전관리부 안전 관리부

· 비상연락 전화번호:

ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 유해성·위험성

· 순물질 또는 혼합물의 분류분류



화염

인화성 액체 - 구분 2

H225 고인화성 액체 및 증기



건강에 위험

특정표적장기 독성 - 1회 노출 - 구분 2 H371 중추 신경계 그리고 시각 기관 을 손상시킬 수 있다.

수생환경 유해성 - 만성3

H412 장기적 영향에 의해 수생생물에 유해함

· 라벨표기요소요소

· 라벨표기요소요소

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

(2 쪽에 계속)

제품명: MILLER'S ELASTIC STAIN

(1 쪽부터 계속)

· 그림문자



· 신호어 위험

· 상표상에 명확히 위험성이 표시된 성분:

메틸알코올

유해 ~~유해~~ ~~유해~~ ~~유해~~ 문구

고인화성 액체 및 증기
중추 신경계 그리고 시각 기관 을 손상시킬 수 있다.
장기적 영향에 의해 수생생물에 유해함

· 예방 조차 문구 문구

열·스파크·화염·고열로부터 멀리하십시오 - 금연
폭발 방지용 전기·환기·조명·장비를 사용하십시오.
분진·흙·가스·미스트·증기·스프레이를 흡입하지 마시오.
피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하십시오. 피부를 물로 씻으시오/샤워하십시오

밀봉하여 저장하십시오.
(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

기타 기타 유해성

- PBT(잔류성, 생물농축성, 물질물질물질) vPvB(고 잔류성, 고 생물농축성) 물질물질물질과 결과
- PBT(잔류성, 생물농축성) 물질물질물질 물질물질 물질물질물질당사항 없음.
- vPvB(고 잔류성, 고 생물농축성) 물질물질물질 물질물질물질물질물질당사항 없음.

3 구성성분의 명칭 및 함유량

· 화학적 특성: 혼합물

설명설명설명 설명한 첨 가 물 이 함유된 아래에 열 거 된 물 질로 만 들 어 진 혼 합 물.

· 위험 요소 요소

64-17-5	Ethyl alcohol 인화성 액체 - 구분 2, H225	>50-≤100%
67-56-1	메틸알코올 인화성 액체 - 구분 2, H225; 특정표적장기 독성 - 1회 노출 - 구분 1, H370; 급성 독성 - 경구 - 구분 4, H302; 급성 독성 - 경피 - 구분 4, H312; 급성 독성 - 흡입 - 구분 4, H332	>2.5-≤10%
108-46-3	resorcinol 수생환경 유해성 - 급성 1, H400; 급성 독성 - 경구 - 구분 4, H302; 피부 부식성/피부 자극성 - 구분 2, H315; 심한 눈 손상성/눈 자극성 - 구분 2, H319	≤2.5%
7647-01-0	염산 피부 부식성/피부 자극성 - 구분 1, H314; 심한 눈 손상성/눈 자극성 - 구분 1, H318; 급성 독성 - 경구 - 구분 4, H302; 특정표적장기 독성 - 1회 노출 - 구분 3, H335	≤2.5%
548-62-9	C.I. Basic Violet 3 발암성 - 구분 2, H351; 심한 눈 손상성/눈 자극성 - 구분 1, H318; 수생환경 유해성 - 급성 1, H400; 수생환경 유해성 - 만성1, H410; 급성 독성 - 경구 - 구분 4, H302	≤2.5%
2185-87-7	(4-(4-(Dimethylamino)phenyl)(4-toluidino-1-naphthyl)methylen)cyclohexa-2,5-dien-1-ylidene)dimethylammoniumchlorid 급성 독성 - 경구 - 구분 3, H301	≤2.5%

KR

(3 쪽에 계속)

물질안전보건자료

GHS에 따라

인쇄일자: 2020.12.29

개정: 2020.12.29

제품명: MILLER'S ELASTIC STAIN

(2 쪽부터 계속)

4 응급조치 요령

- **응급조치요령 내용내용**
 - **일반정보**
중독 증상은 몇 시간 이 지난 뒤에 발생할 수 있다. 따라서 사고가 발생한 후에 적어도 48 시간 동안은 의료진의 관찰을 받아야 한다.
 - **흡입했을 때:**
신선한 공기를 쐬고, 필요할 경우에는 산소 호흡기의 도움을 받는다. 환자를 따뜻하게 하고, 증상이 지속될 경우에는 의료진의 도움을 구한다.
환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.
 - **피부에 접촉했을 때:** 즉시 물과 비누로 씻고 잘 행군다.
 - **눈에 들어갔을 때:** 흐르는 물에 눈을 몇 분 동안 씻어낸다.
 - **먹었을 때:** 증상이 지속될 경우에는 의사와 상담한다.
- 기타 기타 **각각의 주의사항:**
가장 **가장 중요**한 응급 처치 조치는 응급 처치에 관한 정보가 존재하지 않습니다.
· **즉각적인 의료 처치 및 특별 치료가 필요함을 시사하는 징후**가 존재하지 않습니다.

5 폭발·화재시 대처방법

- **소화제**
 - **적당한 소화제:** 이산화탄소, 모래, 석회 가루를 사용하고, 물을 사용하지 않는다.
 - **부적당한 소화제:** 플레트용 물
 - **본 화학물질이나 혼합물에서 발생 가능 특별한 위험** 추가적인 정보가 존재하지 않습니다.
 - **소방관에게 대한 신고 사항**
- 화재 **화재 시 대처 방법** **화재 시 대처 방법** **화재 시 대처 방법** **화재 시 대처 방법** **화재 시 대처 방법**
화재 시 대처 방법 **화재 시 대처 방법** **화재 시 대처 방법** **화재 시 대처 방법** **화재 시 대처 방법**

6 누출 사고 시 대처방법

- **개인적 예방 조치, 보호 장비 및 응급 처치 절차** **개인적 예방 조치, 보호 장비 및 응급 처치 절차** **개인적 예방 조치, 보호 장비 및 응급 처치 절차** **개인적 예방 조치, 보호 장비 및 응급 처치 절차** **개인적 예방 조치, 보호 장비 및 응급 처치 절차**
안전 장비 착용하고, 무방비 의 사람은 격리시킨다.
- **환경 관련 예방 조치:**
하천이나 하수로 유입되었을 경우 해당 관청에 보고한다.
하수도망/하수면 위 의 물/지 하 수로 도 달 하지 않 게 한다.
- **밀폐 및 폐기물 처리 방법:**
액체가 혼합된 물질 (모래, 규조토, 산성 결합물, 일반 결합물, 톱밥)에 흡입되도록 한다.
항목 13에 따라 오염된 물질을 쓰레기로 처분한다.
충분한 환기가 되도록 한다.
물이나 묽은 세척제로 씻어 내지 마십시오
- **추가적인 예방 조치:**
안전 관리에 대한 정보는 제7 장을 참고하십시오.
개인 보호 장비에 대한 정보는 제8 장을 참고하십시오.
쓰레기 처리에 대한 정보는 제13 장을 참고하십시오.

7 취급 및 저장방법

- 취급 취급 취급
- **안전 예방 조치:**
작업장에서는 통풍이 잘 되고/습기 제거가 잘 되게 주의한다.
연무질이 형성되는 것을 피한다.
- **화재 예방 조치:**
발화 요소는 멀리 둔다. 금연.
열로부터 보호한다.

(4 쪽에 계속)

물질안전보건자료

GHS에 따라라따

인쇄일자: 2020.12.29

개정: 2020.12.29

제품명: MILLER'S ELASTIC STAIN

(3 쪽부터계속)

정 전기 의 충 전 으로부터 보호한다.

- **혼합위험성물질의 지정기준 조건**
- **보관보관보관**
- **안전량 저장방법**가운 장 소 에 보 관한다.
- **하 나 의 공 통 공 통 사 업 에 대 한 이 문 의 공 통 정 보 없 음**
- **보 관 조 건 에 관 한 추 가 정 보 정 보**
- 용기를 새지 않게 밀폐한 채 보관한다.
- 밀폐된 용기속에서 늘 하고 건 조 하 게 보 관 한 다.
- 열이나 직사광선으로부터 보호한다.
- **구체적 최종 사용자** 추가적인 정보가 존재하지 않습니다.

8 노출방지 및 개인보호구

- **첨단시설 디자입에 대한 추가정보:** 더 이상 의 자료는 없 음. 항 목 7 을 참고 하 시 오.

통제 ~~문자~~ ~~문자~~ 변수

· 화학물질의 노출기준, 생물학적 노출기준 등:	
64-17-5 Ethyl alcohol	
TLV (KR)	장기간의값: 1000 ppm 발암성 1A
PEL (US)	장기간의값: 1900 mg/m ³ , 1000 ppm
REL (US)	장기간의값: 1900 mg/m ³ , 1000 ppm
TLV (US)	단기간의값: 1880 mg/m ³ , 1000 ppm
67-56-1 메틸알코올	
TLV (KR)	단기간의값: 250 ppm 장기간의값: 200 ppm Skin
IOELV (EU)	장기간의값: 260 mg/m ³ , 200 ppm Skin
PEL (US)	장기간의값: 260 mg/m ³ , 200 ppm
REL (US)	단기간의값: 325 mg/m ³ , 250 ppm 장기간의값: 260 mg/m ³ , 200 ppm Skin
TLV (US)	단기간의값: 328 mg/m ³ , 250 ppm 장기간의값: 262 mg/m ³ , 200 ppm Skin; BEI
108-46-3 resorcinol	
TLV (KR)	단기간의값: 20 ppm 장기간의값: 10 ppm
IOELV (EU)	장기간의값: 45 mg/m ³ , 10 ppm Skin
REL (US)	단기간의값: 90 mg/m ³ , 20 ppm 장기간의값: 45 mg/m ³ , 10 ppm
TLV (US)	단기간의값: 90 mg/m ³ , 20 ppm 장기간의값: 45 mg/m ³ , 10 ppm

(5 쪽에계속)

물질안전보건자료

GHS에 따라 라다

인쇄일자: 2020.12.29

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제품명: MILLER'S ELASTIC STAIN

(4 쪽부터 계속)

7647-염산염산염산

TLV (KR)	단기간의값: 2 ppm 장기간의값: 1 ppm
IOELV (EU)	단기간의값: 15 mg/m ³ , 10 ppm 장기간의값: 8 mg/m ³ , 5 ppm
PEL (US)	최고노출기준: 7 mg/m ³ , 5 ppm
REL (US)	최고노출기준: 7 mg/m ³ , 5 ppm
TLV (US)	최고노출기준: 2.98 mg/m ³ , 2 ppm

· 생물학적 허용값을 갖는 것으로 원료

67-56-1 메틸알코올

BEI (US)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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· 추가정보정보 할 당시에 유효한 목록을 기초로 사용했다.

노출 통제 통제 통제
개인 개인 개인

· 일반적 보호 조치 및 위생 조치:

- 식료품, 음료수와 사료로부터 멀리 떨어져 두어 놓는다.
더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
휴식 전이나 작업이 끝날 때 마다 손을 씻는다.
피부와 의 접촉을 피한다.
눈과 피부와의 접촉을 피한다.

· 호흡기 보호 보호

· 단 시간 또는 경미한 오염의 경우에는 호흡 여과기를 사용한다. 심각한 또는 장기간 노출 시에는 호흡 보호 장비를 사용한다.

보호 보호 보호



보호용 장갑

장갑재질은 제품 / 원료 / 조제를 통과시키지 않아야 하고, 내구성이 있어야 한다.
테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.
투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

· 장갑 의 재료

적합한 장갑 의 선정은 재질 차이 뿐 아니라 품질 기준의 차이도 고려하여 이루어져야 하고 제조업종에 따라서도 다르게 선정되어야 한다. 제품은 다양한 재료로부터의 조제로 이루어지는 것이기 때문에, 장갑재질의 안정성은 사전에 예측되어질 수 있는 것이 아니고, 반드시 사용 전에 (그 안전성이) 체크되어야 한다.

· 장갑 재료의 투과 시간 정확한 관통 시간은 보호 장갑 제조자에 의하여 인지도 되고, 준수 되어야 한다.

보호 보호 보호



확조이는 보안경

KR

(6 쪽에 계속)

물집안전보건자료 GHS에 따라라따

인쇄일자: 2020.12.29

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제품명: MILLER'S ELASTIC STAIN

(5 쪽부터계속)

9 물리화학적 특성

기본 물리화학적 특성에 대한 정보

· 일반정보	
외형외형의형	액체
· 물량적태상태	질은 파랑
· 색:	특색있는
냄새냄새냄새	알맞지않다.
· 후각역치	
· pH:	알맞지않다.
· 상태변화	
· 녹는점/어는점:	맞지않는
초기초기끓는점과 끓는점범위범위	78 °C
· 인화점:	13 °C
· 인화성고체고체기체	해당사항 없음.
· 점화온도:	425 °C
분해온도	알맞지않다.
· 자기점화:	이제품은자연발화성이없다.
· 폭발위험:	이제품은폭발위험성이없지만, 폭발가능성이있는증기화합물/공기화합물의형성가능성이있다.
인화안화안화발폭발 위험성상한상한 하한	
· 아래로:	3.5 Vol %
위로위로위로	15 Vol %
· 증기압 의경우 20 °C:	59 hPa
밀도밀도밀도	맞지않는다.
비중비중비중	알맞지않다.
· 증기밀도:	알맞지않다.
증발증발증발 속도	알맞지않다.
· 용해도:	
· 물:	각각의경우에따라서는 거의혼합할수없는
· n 옥탄올/물 분배계수:	알맞지않다.
점도점도점도	
· 역학성:	알맞지않다.
· 동점성:	알맞지않다.
· 용매내용물	
· 유기용매:	83.7 %
· 물:	4.4 %
· VOC (EU)	83.70 %
· 고체양함량함량	2.0 %
기타 정보정보	추가적인 정보가 존재하지 않습니다.

10 안정성 및 반응성

· 반응성 추가적인 정보가 존재하지 않습니다.

(7 쪽에계속)

물질안전보건자료 GHS에 따라라따

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- **화학적 안정성**
- **화학적 안정성 및 유해 반응의 가능성 / 피해 야한 조건 조건**에 따라 사용 할 경우 해체는 없다
- **유해 반응 가능성** 위험한 반응으로는 알려지지 않았다.
- **피해 야한 조건 조건** 추가적인 정보가 존재 하지 않습니다.
- **혼합 혼합 혼합 혼합 혼합** 추가적인 정보가 존재 하지 않습니다.
- **유해 본 해 물질:** 위험성 있는 본 해 물질은 알려지지 않았다.

11 독성에 관한 정보

· **독성학적 영향에 대한 정보**
급성 독성 독성 독성

· LD/LC50-수 체에 따른 분류		
67-56-1 메틸알코올		
구강의	LD50	5,628 mg/kg (rat)
피부의	LD50	15,800 mg/kg (rabbit)
548-62-9 C.I. Basic Violet 3		
구강의	LD50	420 mg/kg (rat)

- **일차적 자극 효과**
피부 피부 **부식성 또는 자극성:** 피부와 점막 을 자극 한다.
심한 심한 심한 심한 심한 **자극성:** 무 자극.
- **감각 화:** 민감한 영향 이 없는 것으로 알려 져 있다.
- **추 가 적 인 독 성 에 관 한 정보**
이제 품은 유럽 공동체의 공동 분류 원칙의 합법적인 절차에 근거 하여 최근 에 발 호 된 원 고 에서 아 래 위 험 들 의 사 전 준비에 대 하여 제 시 하고 있 다.
건강에 해로운
자극적인

12 환경에 미치는 영향

독성 독성 독성

- **수생 독성:** 추가적인 정보가 존재 하지 않습니다.
- **지속성 및 분해성** 추가적인 정보가 존재 하지 않습니다.
- **한 경 시 스템 에서 의 행 동:**
- **생물 농 축 잠 재 성** 추가적인 정보가 존재 하지 않습니다.
- **토 양 내 이 동 성** 추가적인 정보가 존재 하지 않습니다.
- **생 태 독 성:**
- **추 가 적 인 생 태 학 정보**
- **일반 열 려 물 특 징**
수질 오염 등급 1 (자체 등급 분류): 약 하게 수 질 오염 이 된
회 석 시 키 지 않 은 채 대 량 으 로 지 하 수 나, 하 천 으 로 그 리 고 하 수 도 망 에 도 달 하 지 않 게 한 다.
물 속 의 유 기 체 에 해 가 되 는 것
- **PBT(잔류성, 생물농축성, 물질독성) 및 vPvB(고 잔류성, 고 생물농축성, 물질독성) 평가 결과**
- **PBT(잔류성, 생물농축성, 물질독성) 물질 독성** 당사 항 없 음.
- **vPvB(고 잔류성, 고 생물농축성, 물질독성) 물질 독성** 당사 항 없 음.
- **기 타 기 타 부 과 용** 추가적인 정보가 존재 하지 않습니다.

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(8 쪽에 계속)

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인쇄일자: 2020.12.29

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13 폐기시 주의사항

- 폐기물 처리 방법
권고 권고 권고 생활 쓰레기와 함께 처리되어서는 안된다. 하수도망으로 유입되어서는 안된다.
- 비위생적 포장 포장
권고 권고 권고 의지침에 입각한 쓰레기 처리.

14 운송에 필요한 정보

유엔 유엔 유엔 번호 · ADR, IMDG, IATA	UN1993
적정 적정 적정명 · ADR · IMDG · IATA	1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID) FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID)
교통 교통 교통의 위험 클래스 · ADR	
	
등급 등급 등급 · 위험물 라벨 라벨	3 발화성용액 3+8
· IMDG	
	
· Class · Label	3 발화성용액 3/8
· IATA	
	
· Class · Label	3 발화성용액 3 (8)
· 용기 등급 · ADR, IMDG, IATA	II
· 환경적 유해물질: · 해양오염물질:	이물질은 환경오염물질을 함유하고 있다: resorcinol 심벌 (물고기와 나무)
· 이물질 특별 취급 조치	경고: 발화성용액

(9 쪽에 계속)

물질안전보건자료

GHS에 따라라따

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67-56-1	메틸알코올	KE-23193
108-46-3	resorcinol	KE-02557
7647-01-0	염산	KE-20189
548-62-9	C.I. Basic Violet 3	KE-07006
3248-91-7	4-[(4-amino-m-tolyl)(4-imino-3-methylcyclohexa-2,5-dien-1-ylidene)methyl]-o-toluidine monohydrochloride	KE-01468
9004-53-9	호정	KE-09627

· 화학물질관리법

· 사고대비물질

67-56-1	메틸알코올
7647-01-0	염산

· 금지물질

어떠한내용물도목록화되어있지않다

· 제한물질

어떠한내용물도목록화되어있지않다

· 유독물질

67-56-1	메틸알코올
7647-01-0	염산

· 허가물질

67-56-1	메틸알코올
108-46-3	resorcinol
7647-01-0	염산

· 위험물안전관리법 (위험물 및 지정수량) 제 4: 400 리터

등록등록물질등으로 선제대상 화학물질

7732-18-5	물
9004-53-9	호정

· ‘21년까지 등록하여야 할 압, 돌연변이, 생식능력 이상을 일으킬 우려가 있는 기존화학물질

어떠한내용물도목록화되어있지않다

· 중점관리물 질(양) 지정지정

· 표1 중점관리물질(제한조건관련관련

548-62-9	C.I. Basic Violet 3
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· 표2 중점관리물질(제한조건관련관련

어떠한내용물도목록화되어있지않다

· 라벨 라벨 요소

본 제품은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· 그림문자



GHS02 GHS08

· 신호어 위험

· 상표상에명확히위험성이표시된성분:

메틸알코올

(11 쪽에계속)

물질안전보건자료

GHS에 따라

인쇄일자: 2020.12.29

개정: 2020.12.29

제품명: MILLER'S ELASTIC STAIN

(10 쪽부터 계속)

유해 유해성 관련 문구

고인화성 액체 및 증기
중추 신경계 그리고 시각 기관을 손상시킬 수 있다.
장기적 영향에 의해 수생생물에 유해함

· **예방조치** 문구

열·스파크·화염·고열로부터 멀리하십시오 - 금연
폭발 방지용 전기·환기·조명·장비를 사용하십시오.
분진·흙·가스·미스트·증기·스프레이를 흡입하지 마시오.
피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하십시오. 피부를 물로 씻으시오/샤워하십시오

· 밀봉하여 저장하십시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

· **화학물질 안전성 평가** 화학물질 안전성 평가가 수행되지 않음

16 그 밖의 참고사항

이 보고는 우리 지식에 대한 오늘날의 상태에 대하여 평가하고 있다, 하지만 이 보고서는 생산 특성에 관한 보증은 기술하지 않았으며 계약적인 법률 관계에 기반을 두고 있지 않다

최초 **최초 작성일자:** 2020.12.29개정 **개정 일자:** 1 / 2020.12.29· **약어와 두문자어:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

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SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

· 1.1 Identificador del producto

· **Nombre comercial:** MILLER'S ELASTIC STAIN

· **Número del artículo:** 26076-05, 26076-10

· **UFI:** TA03-C01J-Y00H-V41H

· 1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

No existen más datos relevantes disponibles.

· **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio

· 1.3 Datos del proveedor de la ficha de datos de seguridad

· **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: ventas@aname.es

· **Área de información:** Product safety department

· 1.4 Teléfono de emergencia:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

SECCIÓN 2: Identificación de los peligros

· 2.1 Clasificación de la sustancia o de la mezcla

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS02 llama

Flam. Liq. 2 H225 Líquido y vapores muy inflamables.



GHS08 peligro para la salud

STOT SE 2 H371 Puede provocar daños en el sistema nervioso central y los órganos visuales.

Aquatic Chronic 3 H412 Nocivo para los organismos acuáticos, con efectos nocivos duraderos.

· 2.2 Elementos de la etiqueta

· **Etiquetado con arreglo al Reglamento (CE) n° 1272/2008**

El producto se ha clasificado y etiquetado de conformidad con el reglamento CLP.

(se continua en página 2)

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· **Pictogramas de peligro**



GHS02 GHS08

· **Palabra de advertencia Peligro**

· **Componentes peligrosos a indicar en el etiquetaje:**

metanol

· **Indicaciones de peligro**

H225 Líquido y vapores muy inflamables.

H371 Puede provocar daños en el sistema nervioso central y los órganos visuales.

H412 Nocivo para los organismos acuáticos, con efectos nocivos duraderos.

· **Consejos de prudencia**

P210 Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.

P241 Utilizar material [eléctrico/ de ventilación/iluminación] antideflagrante.

P260 No respirar el polvo/el humo/el gas/la niebla/los vapores/el aerosol.

P303+P361+P353 EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].

P405 Guardar bajo llave.

P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.

· **2.3 Otros peligros**

· **Resultados de la valoración PBT y mPmB**

· **PBT:** No aplicable.

· **mPmB:** No aplicable.

SECCIÓN 3: Composición/información sobre los componentes

· **3.2 Caracterización química: Mezclas**

· **Descripción:** Mezcla formada por las sustancias especificadas a continuación con adiciones no peligrosas.

· **Componentes peligrosos:**

CAS: 64-17-5 EINECS: 200-578-6	etanol Flam. Liq. 2, H225	>50-≤100%
CAS: 67-56-1 EINECS: 200-659-6	metanol Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	>2,5-≤10%
CAS: 108-46-3 EINECS: 203-585-2	1,3-bencenodiol Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2,5%
CAS: 7647-01-0 EINECS: 231-595-7	cloruro de hidrogeno Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335	≤2,5%
CAS: 548-62-9 EINECS: 208-953-6	C.I. Violeta básico 3 Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	≤2,5%

· **SVHC**

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· **Indicaciones adicionales:** El texto de los posibles riesgos aquí indicados se puede consultar en el capítulo 16.

SECCIÓN 4: Primeros auxilios

· 4.1 Descripción de los primeros auxilios

· Instrucciones generales:

Los síntomas de intoxicación pueden presentarse después de muchas horas, por lo que se requiere una supervisión médica durante un mínimo de 48 horas después del accidente.

· En caso de inhalación del producto:

Suministrar aire fresco; eventualmente hacer respiración artificial, calor. Si los trastornos persisten, consultar al médico.

Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.

· En caso de contacto con la piel: Lavar inmediatamente con agua y jabón y enjuagar bien.

· En caso de con los ojos: Limpiar los ojos abiertos durante varios minutos con agua corriente.

· En caso de ingestión: Consultar un médico si los trastornos persisten.

· 4.2 Principales síntomas y efectos, agudos y retardados No existen más datos relevantes disponibles.

· 4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente

No existen más datos relevantes disponibles.

SECCIÓN 5: Medidas de lucha contra incendios

· 5.1 Medios de extinción

· Sustancias extintoras apropiadas: CO₂, arena, polvo extintor. No utilizar agua.

· Sustancias extintoras inapropiadas por razones de seguridad: Agua a pleno chorro

· 5.2 Peligros específicos derivados de la sustancia o la mezcla No existen más datos relevantes disponibles.

· 5.3 Recomendaciones para el personal de lucha contra incendios

· Equipo especial de protección: Colocarse la protección respiratoria.

SECCIÓN 6: Medidas en caso de vertido accidental

· 6.1 Precauciones personales, equipo de protección y procedimientos de emergencia

Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.

· 6.2 Precauciones relativas al medio ambiente:

Al penetrar en las aguas o en el alcantarillado, avisar a las autoridades pertinentes.

Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.

· 6.3 Métodos y material de contención y de limpieza:

Quitar con material absorbente (arena, kieselgur, aglutinante de ácidos, aglutinante universal, aserrín).

Desechar el material contaminado como vertido según ítem 13.

Asegurar suficiente ventilación.

No enjuagar con agua ni productos de limpieza acuosos.

· 6.4 Referencia a otras secciones

Ver capítulo 7 para mayor información sobre una manipulación segura.

Ver capítulo 8 para mayor información sobre el equipo personal de protección.

Para mayor información sobre cómo desechar el producto, ver capítulo 13.

SECCIÓN 7: Manipulación y almacenamiento

· 7.1 Precauciones para una manipulación segura

Asegurar suficiente ventilación /aspiración en el puesto de trabajo.

Evitar la formación de aerosoles.

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- **Prevención de incendios y explosiones:**
Mantener alejadas las fuentes de encendido. No fumar.
Proteger del calor.
Tomar medidas contra las cargas electrostáticas.
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** Almacenar en un lugar fresco.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**
Mantener el recipiente cerrado herméticamente.
Almacenarlo en envases bien cerrados en un lugar fresco y seco.
Proteger del calor y de la luz directa del sol.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

SECCIÓN 8: Controles de exposición/protección individual

- **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**
Sin datos adicionales, ver punto 7.

· 8.1 Parámetros de control

- **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:**

64-17-5 etanol

LEP	Valor de corta duración: 1910 mg/m ³ , 1000 ppm
	s

67-56-1 metanol

LEP	Valor de larga duración: 266 mg/m ³ , 200 ppm
	vía dérmica, VLB, VLI

108-46-3 1,3-bencenodiol

LEP	Valor de larga duración: 46 mg/m ³ , 10 ppm
	VLI, ae

7647-01-0 cloruro de hidrogeno

LEP	Valor de corta duración: 15 mg/m ³ , 10 ppm
	Valor de larga duración: 7,6 mg/m ³ , 5 ppm
	VLI

- **Componentes con valores límite biológicos:**

67-56-1 metanol

VLB	15 mg/l
	Muestra: orina
	Momento de Muestero: Final de la jornada laboral
	Indicador Biológico: Metanol

- **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.

· 8.2 Controles de la exposición

· Equipo de protección individual:

· Medidas generales de protección e higiene:

- Mantener alejado de alimentos, bebidas y alimentos para animales.
- Quitarse de inmediato la ropa ensuciada o impregnada.
- Lavarse las manos antes de las pausas y al final del trabajo.
- Evitar el contacto con la piel.
- Evitar el contacto con los ojos y la piel.

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· **Protección respiratoria:**

Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

· **Protección de manos:**



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

· **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro. Teniendo en cuenta que el producto está fabricado a partir de diferentes materiales, su calidad no puede ser evaluada de antemano, de modo que los guantes deberán ser controlados antes de su utilización.

· **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

· **Protección de ojos:**



Gafas de protección herméticas

SECCIÓN 9: Propiedades físicas y químicas

· **9.1 Información sobre propiedades físicas y químicas básicas**

· **Datos generales**

· **Aspecto:**

· **Forma:**

Líquido

· **Color:**

Azul oscuro

· **Olor:**

Característico

· **Umbral olfativo:**

No determinado.

· **valor pH:**

No determinado.

· **Cambio de estado**

· **Punto de fusión/punto de congelación:**

Indeterminado.

· **Punto inicial de ebullición e intervalo de ebullición:** 78 °C

· **Punto de inflamación:**

13 °C

· **Inflamabilidad (sólido, gas):**

No aplicable.

· **Temperatura de ignición:**

425 °C

· **Temperatura de descomposición:**

No determinado.

· **Temperatura de auto-inflamación:**

El producto no es autoinflamable.

· **Propiedades explosivas:**

El producto no es explosivo; sin embargo, pueden formarse mezclas explosivas de vapor / aire.

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· Límites de explosión:	
· Inferior:	3,5 Vol %
· Superior:	15 Vol %
· Presión de vapor a 20 °C:	59 hPa
· Densidad:	Indeterminado.
· Densidad relativa	No determinado.
· Densidad de vapor	No determinado.
· Tasa de evaporación:	No determinado.
· Solubilidad en / miscibilidad con	
· agua:	Poco o no mezclable.
· Coefficiente de reparto: n-octanol/agua:	No determinado.
· Viscosidad:	
· Dinámica:	No determinado.
· Cinemática:	No determinado.
· Concentración del disolvente:	
· Disolventes orgánicos:	83,7 %
· Agua:	4,4 %
· VOC (CE)	83,70 %
· Contenido de cuerpos sólidos:	2,0 %
· 9.2 Otros datos	No existen más datos relevantes disponibles.

SECCIÓN 10: Estabilidad y reactividad

- **10.1 Reactividad** No existen más datos relevantes disponibles.
- **10.2 Estabilidad química**
- **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

· **Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación:**

67-56-1 metanol

Oral	LD50	5.628 mg/kg (rat)
Dermal	LD50	15.800 mg/kg (rabbit)

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Oral	LD50	420 mg/kg (rat)
------	------	-----------------

- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Lesiones o irritación ocular graves**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

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- **Sensibilización respiratoria o cutánea**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
- **Mutagenicidad en células germinales**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Carcinogenicidad** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad para la reproducción** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición única**
Puede provocar daños en el sistema nervioso central y los órganos visuales.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.
- **Efectos ecotóxicos:**
- **Observación:** Nocivo para los peces.
- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**
Nivel de riesgo para el agua 1 (autoclasificación): escasamente peligroso para el agua
En estado no diluido o no neutralizado, no dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados.
nocivo para organismos acuáticos
- **12.5 Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.
- **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

SECCIÓN 13: Consideraciones relativas a la eliminación

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- **Embalajes sin limpiar:**
- **Recomendación:** Eliminar conforme a las disposiciones oficiales.

SECCIÓN 14: Información relativa al transporte

- **14.1 Número ONU**
- **ADR, IMDG, IATA** UN1993
- **14.2 Designación oficial de transporte de las Naciones Unidas**
- **ADR** 1993 LÍQUIDO INFLAMABLE, N.E.P. (ETANOL (ALCOHOL ETÍLICO), ÁCIDO CLORHÍDRICO)

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<ul style="list-style-type: none"> · IMDG · IATA 	<p><i>FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), HYDROCHLORIC ACID), MARINE POLLUTANT</i></p> <p><i>FLAMMABLE LIQUID, N.O.S. (ETHANOL, HYDROCHLORIC ACID)</i></p>
<ul style="list-style-type: none"> · 14.3 Clase(s) de peligro para el transporte · ADR 	
	
<ul style="list-style-type: none"> · Clase · Etiqueta 	<p><i>3 Líquidos inflamables</i></p> <p><i>3+8</i></p>
<ul style="list-style-type: none"> · IMDG 	
	
<ul style="list-style-type: none"> · Class · Label 	<p><i>3 Líquidos inflamables</i></p> <p><i>3/8</i></p>
<ul style="list-style-type: none"> · IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	<p><i>3 Líquidos inflamables</i></p> <p><i>3 (8)</i></p>
<ul style="list-style-type: none"> · 14.4 Grupo de embalaje · ADR, IMDG, IATA 	<p><i>II</i></p>
<ul style="list-style-type: none"> · 14.5 Peligros para el medio ambiente: · Contaminante marino: 	<p><i>El producto contiene materias peligrosas para el medio ambiente: 1,3-bencenodiol</i></p> <p><i>Símbolo (pez y árbol)</i></p>
<ul style="list-style-type: none"> · 14.6 Precauciones particulares para los usuarios · Número de identificación de peligro (Número Kemler): · Número EMS: · Segregation groups · Stowage Category 	<p><i>Atención: Líquidos inflamables</i></p> <p><i>338</i></p> <p><i>F-E,S-E</i></p> <p><i>Acids</i></p> <p><i>B</i></p>
<ul style="list-style-type: none"> · 14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC 	<p><i>No aplicable.</i></p>
<ul style="list-style-type: none"> · Transporte/datos adicionales: 	
<ul style="list-style-type: none"> · ADR · Cantidades limitadas (LQ) · Cantidades exceptuadas (EQ) · Categoría de transporte 	<p><i>1L</i></p> <p><i>Código: E2</i></p> <p><i>Cantidad neta máxima por envase interior: 30 ml</i></p> <p><i>Cantidad neta máxima por embalaje exterior: 500 ml</i></p> <p><i>2</i></p>

(se continua en página 9)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 29.12.2020

Revisión: 29.12.2020

Nombre comercial: MILLER'S ELASTIC STAIN

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· Código de restricción del túnel	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· "Reglamentación Modelo" de la UNECE:	UN 1993 LÍQUIDO INFLAMABLE, N.E.P. (ETANOL (ALCOHOL ETÍLICO), ÁCIDO CLORHÍDRICO), 3 (8), II

SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- **Directiva 2012/18/UE**
- **Sustancias peligrosas nominadas - ANEXO I** ninguno de los componentes está incluido en una lista
- **Categoría Seveso P5c LÍQUIDOS INFLAMABLES**
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior** 5.000 t
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior** 50.000 t
- **REGLAMENTO (CE) n° 1907/2006 ANEXO XVII Restricciones:** 3, 69, 72

- **Directiva 2011/65/UE sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos - Anexo II**

ninguno de los componentes está incluido en una lista

- **Disposiciones nacionales:**
- **Demás disposiciones, limitaciones y decretos prohibitivos**

- **Sustancias altamente preocupantes (SVHC) según REACH, artículo 57**

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- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

- **Frases relevantes**
- H225 Líquido y vapores muy inflamables.
- H302 Nocivo en caso de ingestión.
- H312 Nocivo en contacto con la piel.
- H314 Provoca quemaduras graves en la piel y lesiones oculares graves.
- H315 Provoca irritación cutánea.
- H318 Provoca lesiones oculares graves.
- H319 Provoca irritación ocular grave.
- H332 Nocivo en caso de inhalación.
- H335 Puede irritar las vías respiratorias.
- H351 Se sospecha que provoca cáncer.
- H370 Provoca daños en los órganos.
- H400 Muy tóxico para los organismos acuáticos.
- H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.

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· Abreviaturas y acrónimos:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Líquidos inflamables – Categoría 2

Acute Tox. 4: Toxicidad aguda - oral – Categoría 4

Skin Corr. 1B: Corrosión o irritación cutáneas – Categoría 1B

Skin Irrit. 2: Corrosión o irritación cutáneas – Categoría 2

Eye Dam. 1: Lesiones oculares graves o irritación ocular – Categoría 1

Eye Irrit. 2: Lesiones oculares graves o irritación ocular – Categoría 2

Carc. 2: Carcinogenicidad – Categoría 2

STOT SE 1: Toxicidad específica en determinados órganos (exposición única) – Categoría 1

STOT SE 2: Toxicidad específica en determinados órganos (exposición única) – Categoría 2

STOT SE 3: Toxicidad específica en determinados órganos (exposición única) – Categoría 3

Aquatic Acute 1: Peligroso para el medio ambiente acuático - peligro acuático agudo – Categoría 1

Aquatic Chronic 1: Peligroso para el medio ambiente acuático - peligro acuático a largo plazo – Categoría 1

Aquatic Chronic 3: Peligroso para el medio ambiente acuático - peligro acuático a largo plazo – Categoría 3

ES