

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

## 1 Identification

- **Product identifier**
- **Trade name:** CURED EPOXY REMOVER
- **Article number:** 14942
- **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**



GHS01 Exploding bomb

Unstable Explosives

H200 Unstable explosive.



GHS02 Flame

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Dermal 3

H311 Toxic in contact with skin.

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Germ Cell Mutagenicity 1B

H340 May cause genetic defects.

Carcinogenicity 1A

H350 May cause cancer.

Specific Target Organ Toxicity - Single Exposure 1

H370 Causes damage to the central nervous system and the visual organs.

Specific Target Organ Toxicity - Repeated Exposure 1

H372 Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

Trade name: CURED EPOXY REMOVER

(Contd. of page 1)



GHS07

Acute Toxicity - Oral 4

Skin Irritation 2

Eye Irritation 2A

Specific Target Organ Toxicity - Single Exposure 3

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Label elements**

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

· **Hazard pictograms**



GHS01

GHS02

GHS06

GHS07

GHS08

· **Signal word** Danger

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

benzene

2,4,6-trinitrophenol

Methyl Alcohol

Acetone, Reagent Grade

· **Hazard statements**

Unstable explosive.

Highly flammable liquid and vapor.

Harmful if swallowed.

Toxic in contact with skin or if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause genetic defects.

May cause cancer.

Causes damage to the central nervous system and the visual organs.

May cause drowsiness or dizziness.

Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· **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.

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.

Use only outdoors or in a well-ventilated area.

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

Wear personal protective equipment/face protection.

If swallowed: Immediately call a poison center/doctor.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

**Trade name: CURED EPOXY REMOVER**

(Contd. of page 2)

Specific treatment (see on this label).

Do NOT induce vomiting.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Rinse mouth.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

Explosion risk in case of fire.

DO NOT fight fire when fire reaches explosives.

Evacuate area.

Store in accordance with local/regional/national/international regulations.

Store in a well-ventilated place. Keep container tightly closed.

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)**



Health = 2

Fire = 3

Reactivity = 4

· **HMIS-ratings (scale 0 - 4)**



Health = \*2

Fire = 3

Reactivity = 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	>10- ≤25%
67-56-1	Methyl Alcohol	>10- ≤25%
67-64-1	Acetone, Reagent Grade	>10- ≤25%
	benzene	>10- ≤25%
88-89-1	2,4,6-trinitrophenol	>10- ≤25%

US

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

Trade name: CURED EPOXY REMOVER

(Contd. of page 3)

## 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
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. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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** Remove persons from danger area.
- **Environmental precautions:** 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.
- **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
67-56-1	Methyl Alcohol	530 ppm
67-64-1	Acetone, Reagent Grade	200 ppm
	benzene	52 ppm
88-89-1	2,4,6-trinitrophenol	0.3 mg/m <sup>3</sup>

(Contd. on page 5)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

**Trade name: CURED EPOXY REMOVER**

(Contd. of page 4)

· <b>PAC-2:</b>		
64-17-5	Ethyl alcohol	3300* ppm
67-56-1	Methyl Alcohol	2,100 ppm
67-64-1	Acetone, Reagent Grade	3200* ppm
	benzene	800 ppm
88-89-1	2,4,6-trinitrophenol	17 mg/m <sup>3</sup>
· <b>PAC-3:</b>		
64-17-5	Ethyl alcohol	15000* ppm
67-56-1	Methyl Alcohol	7200* ppm
67-64-1	Acetone, Reagent Grade	5700* ppm
	benzene	4000* ppm
88-89-1	2,4,6-trinitrophenol	100 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
 Keep ignition sources away - Do not smoke.  
 Prevent impact and friction.  
 Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Keep receptacle tightly sealed.  
 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**

· <b>Components with limit values that require monitoring at the workplace:</b>	
<b>64-17-5 Ethyl alcohol</b>	
PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1000 ppm
A3	

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

**Trade name: CURED EPOXY REMOVER**

(Contd. of page 5)

**67-56-1 Methyl Alcohol**

PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm  
 Long-term value: 260 mg/m<sup>3</sup>, 200 ppm  
 Skin

TLV Short-term value: 250 ppm  
 Long-term value: 200 ppm  
 Skin; BEI

**67-64-1 Acetone, Reagent Grade**

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm

TLV Short-term value: 500 ppm  
 Long-term value: 250 ppm  
 A4, BEI

**benzene**

PEL Short-term value: 15\* mg/m<sup>3</sup>, 5\* ppm  
 Long-term value: 3\* mg/m<sup>3</sup>, 1\* ppm  
 \*table Z-2 for exclusions in 29CFR1910.1028(d)

REL Short-term value: 1 ppm  
 Long-term value: 0.1 ppm  
 See Pocket Guide App. A

TLV Short-term value: (2.5) NIC-0.1 ppm  
 Long-term value: (0.5) NIC-0.02 ppm  
 Skin; BEI, A1

**88-89-1 2,4,6-trinitrophenol**

PEL Long-term value: 0.1 mg/m<sup>3</sup>  
 Skin

REL Short-term value: 0.3 mg/m<sup>3</sup>  
 Long-term value: 0.1 mg/m<sup>3</sup>  
 Skin

TLV Long-term value: 0.1 mg/m<sup>3</sup>

**· Ingredients with biological limit values:**
**67-56-1 Methyl Alcohol**

BEI 15 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Methanol (background, nonspecific)

**67-64-1 Acetone, Reagent Grade**

BEI 25 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Acetone (nonspecific)

(Contd. on page 7)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

**Trade name: CURED EPOXY REMOVER**

(Contd. of page 6)

**benzene**

<b>BEI</b>	25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background)
	500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)

· **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.
- Store protective clothing separately.
- 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.

· **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:**

Safety glasses



Tightly sealed goggles

US

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

Trade name: CURED EPOXY REMOVER

(Contd. of page 7)

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	56.5 °C (133.7 °F)

· **Flash point:** -20 °C (-4 °F)

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

· **Ignition temperature:** 300 °C (572 °F)

· **Decomposition temperature:** Not determined.

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

· **Danger of explosion:** Extreme risk of explosion by shock, friction, fire or other sources of ignition.  
Forms very sensitive explosive metallic compounds.

· **Explosion limits:**

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	44 Vol %

· **Vapor pressure at 20 °C (68 °F):** 233 hPa (174.8 mm Hg)

· **Density at 20 °C (68 °F):** 1.0034 g/cm<sup>3</sup> (8.37337 lbs/gal)

· **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:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

· **Solvent content:**

<b>Organic solvents:</b>	80.0 %
<b>VOC content:</b>	60.00 %
	807.1 g/l / 6.74 lb/gal

**Solids content:** 20.0 %

· **Other information** No further relevant information available.

US

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

Trade name: CURED EPOXY REMOVER

(Contd. of page 8)

## 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:**

**benzene**

Oral	LD50	4,894 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4 h	9,980 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Toxic  
Irritant  
Carcinogenic.  
The product can cause inheritable damage.

- **Carcinogenic categories**

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

64-17-5	Ethyl alcohol	I
	benzene	I

· **NTP (National Toxicology Program)**

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

benzene

## 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.

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

**Trade name: CURED EPOXY REMOVER**





(Contd. of page 9)

- **Additional ecological information:**
- **General notes:**  
*Water hazard class 3 (Self-assessment): extremely hazardous for water  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into the ground.*
- **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

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: center;">UN1992</p>  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | <p style="text-align: center;"><i>Flammable liquids, toxic, n.o.s. (Acetone, Benzene)</i><br/> <b>1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONE, BENZENE)</b><br/> <b>FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONE, BENZENE)</b></p>                                     |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>   | <div style="display: flex; justify-content: center; align-items: center; gap: 20px;">   </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>  | <p style="text-align: center;"><i>3 Flammable liquids</i><br/> <b>3, 6.1</b></p>   |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>  | <div style="display: flex; justify-content: center; align-items: center; gap: 20px;">   </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>  | <p style="text-align: center;"><i>3 Flammable liquids</i><br/> <b>3+6.1</b></p>  |

(Contd. on page 11)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

Trade name: CURED EPOXY REMOVER

(Contd. of page 10)

· **IMDG**

· **Class** 3 Flammable liquids  
 · **Label** 3/6.1

· **IATA**

· **Class** 3 Flammable liquids  
 · **Label** 3 (6.1)

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

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Flammable liquids  
 · **Hazard identification number (Kemler code):** 336  
 · **EMS Number:** F-E,S-D  
 · **Stowage Category** B  
 · **Stowage Code** SW2 Clear of living quarters.

· **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: 60 L

· **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 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (ACETONE, BENZENE), 3 (6.1), II

US  
(Contd. on page 12)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

Trade name: CURED EPOXY REMOVER

(Contd. of page 11)

## 15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

67-56-1 Methyl Alcohol

benzene

88-89-1 2,4,6-trinitrophenol

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

67-56-1 Methyl Alcohol

benzene

· Proposition 65

· Chemicals known to cause cancer:

benzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

benzene

· Chemicals known to cause developmental toxicity:

64-17-5 Ethyl alcohol

67-56-1 Methyl Alcohol

benzene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

67-64-1 Acetone, Reagent Grade

I

benzene

A, K/L

· TLV (Threshold Limit Value)

64-17-5 Ethyl alcohol

A3

67-64-1 Acetone, Reagent Grade

A4

benzene

A1

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

benzene

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

· Hazard pictograms



GHS01

GHS02

GHS06

GHS07

GHS08

(Contd. on page 13)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

**Trade name: CURED EPOXY REMOVER**

(Contd. of page 12)

· **Signal word** *Danger*

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

*benzene*

*2,4,6-trinitrophenol*

*Methyl Alcohol*

*Acetone, Reagent Grade*

· **Hazard statements**

*Unstable explosive.*

*Highly flammable liquid and vapor.*

*Harmful if swallowed.*

*Toxic in contact with skin or if inhaled.*

*Causes skin irritation.*

*Causes serious eye irritation.*

*May cause genetic defects.*

*May cause cancer.*

*Causes damage to the central nervous system and the visual organs.*

*May cause drowsiness or dizziness.*

*Causes damage to the central nervous system and the hematopoietic system through prolonged or repeated exposure.*

*May be fatal if swallowed and enters airways.*

· **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.*

*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.*

*Use only outdoors or in a well-ventilated area.*

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

*Wear personal protective equipment/face protection.*

*If swallowed: Immediately call a poison center/doctor.*

*Specific treatment (see on this label).*

*Do NOT induce vomiting.*

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

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*IF exposed or concerned: Get medical advice/attention.*

*Get medical advice/attention if you feel unwell.*

*Rinse mouth.*

*Take off immediately all contaminated clothing and wash it before reuse.*

*If skin irritation occurs: Get medical advice/attention.*

*If eye irritation persists: Get medical advice/attention.*

*In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*Explosion risk in case of fire.*

*DO NOT fight fire when fire reaches explosives.*

*Evacuate area.*

*Store in accordance with local/regional/national/international regulations.*

*Store in a well-ventilated place. Keep container tightly closed.*

*Store in a well-ventilated place. Keep cool.*

(Contd. on page 14)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 02/01/2023

Reviewed on 02/01/2023

**Trade name: CURED EPOXY REMOVER**

(Contd. of page 13)

Store locked up.

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

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **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.

· **Contact:**

· **Date of preparation / last revision** 02/01/2023

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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**

**Unstable Explosives: Explosives – Unstable explosive**

**Flammable Liquids 2: Flammable liquids – Category 2**

**Acute Toxicity - Oral 4: Acute toxicity – Category 4**

**Acute Toxicity - Dermal 3: Acute toxicity – Category 3**

**Skin Irritation 2: Skin corrosion/irritation – Category 2**

**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A**

**Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B**

**Carcinogenicity 1A: Carcinogenicity – Category 1A**

**Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1**

**Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1**

**Aspiration Hazard 1: Aspiration hazard – Category 1**