1 Identification

- **Product identifier**
- **Trade name:** PICRIC ACID, 0.1% IN ACETONE
- **Article number:** 19553
- **CAS Number:** 67-64-1
- **EC number:** 200-662-2
- **Index number:** 606-001-00-8
- **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: sgkcck@aol.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**

```
GHS07
```

Eye Irrit. 2A  H319  Causes serious eye irritation.
STOT SE 3  H336  May cause drowsiness or dizziness.

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

```
GHS07
```

- **Signal word** Warning
- **Hazard-determining components of labeling:**
  Acetone, Reagent Grade
- **Hazard statements**
  Causes serious eye irritation.
  May cause drowsiness or dizziness.
- **Precautionary statements**
  Avoid breathing dust/fume/gas/mist/vapors/spray
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear eye protection / face protection.

(Contd. on page 2)
Trade name: PICRIC ACID, 0.1% IN ACETONE

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. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Store in a well-ventilated place. Keep container tightly closed. 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 = 1
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - Health = 2
    - Fire = 1
    - Reactivity = 0

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
  - 67-64-1 Acetone, Reagent Grade
- Identification number(s)
- EC number: 200-662-2
- Index number: 606-001-00-8

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:
  Generally the product does not irritate the skin.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
5 Fire-fighting measures

- Indications of any immediate medical attention and special treatment needed
  No further relevant information available.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Not required.
- 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

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th>Acetone, Reagent Grade</th>
<th>200 ppm</th>
<th>2,4,6-trinitrophenol</th>
<th>0.3 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>88-89-1</td>
<td>2,4,6-trinitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th>Acetone, Reagent Grade</th>
<th>3200* ppm</th>
<th>2,4,6-trinitrophenol</th>
<th>17 mg/m³</th>
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</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>88-89-1</td>
<td>2,4,6-trinitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th>Acetone, Reagent Grade</th>
<th>5700* ppm</th>
<th>2,4,6-trinitrophenol</th>
<th>100 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>88-89-1</td>
<td>2,4,6-trinitrophenol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:
    No special measures required.
- 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.

(Contd. on page 4)
8 Exposure controls/personal protection

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

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>67-64-1 Acetone, Reagent Grade</strong></td>
</tr>
<tr>
<td>PEL</td>
</tr>
<tr>
<td>REL</td>
</tr>
<tr>
<td>TLV</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

- Ingredients with biological limit values:

<table>
<thead>
<tr>
<th><strong>67-64-1 Acetone, Reagent Grade</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI 50 mg/L</td>
</tr>
<tr>
<td>Medium: urine</td>
</tr>
<tr>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: Acetone (nonspecific)</td>
</tr>
</tbody>
</table>

- 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 eyes.
  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:
  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.

- 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.
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Liquid
      - Color: Light yellow
    - Odor: Acetone-like
    - Odor threshold: Not determined.
  - pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: \(-94.7 \, ^\circ C \, (-138.5 \, ^\circ F)\)
  - Boiling point/Boiling range: \(56.5 \, ^\circ C \, (133.7 \, ^\circ F)\)
- Flash point: -20 °C (-4 °F)
- Flammability (solid, gaseous): Not flammable.
- Ignition temperature: 465 °C (869 °F)
- Decomposition temperature: Not determined.
- Auto igniting: Not determined.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: 2.6 Vol %
  - Upper: 13 Vol %
- Vapor pressure at 20 °C (68 °F): 233 hPa (174.8 mm Hg)
- Density at 20 °C (68 °F): 0.79 g/cm³ (6.59255 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:
    - Dynamic at 20 °C (68 °F): 32 mPas
    - Kinematic: Not determined.
  - Organic solvents: 99.9 %
  - VOC content: 0.00 %
  - Solids content: 0.0 g/l / 0.00 lb/gal
  - Solids content: 0.1 %
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:

| Acetone, Reagent Grade | Oral LD50 5,800 mg/kg (rat) | Dermal LD50 20,000 mg/kg (rabbit) |

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    Substance is not listed.
  - NTP (National Toxicology Program)
    Substance is not listed.
  - OSHA-Ca (Occupational Safety Health Administration)
    Substance is not 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.
- Additional ecological information:
- General notes:
  Water hazard class 1 (Assessment by list): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
### 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 | UN1090 |
| · DOT, ADR, IMDG, IATA | Acetone |
| · UN proper shipping name | 1090 ACETONE |
| · DOT | ACETONE |
| · ADR | ACETONE |
| · IMDG, IATA | ACETONE |

#### DOT

| · Class | 3 Flammable liquids |
| · Label | 3 |

#### ADR, IMDG, IATA

| · Class | 3 Flammable liquids |
| · Label | 3 |

#### Packing group

| · DOT, ADR, IMDG, IATA | II |

#### Environmental hazards:

| · Not applicable. |

#### Special precautions for user

| · Warning: Flammable liquids |
| · 33 |

#### Danger code (Kemler):

| · F-E,S-D |

#### EMS Number:

| · E |

### Stowage Category

| · E |

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

| · Not applicable. |
### Transport/Additional information:

<table>
<thead>
<tr>
<th>DOT</th>
</tr>
</thead>
</table>
| Quantity limitations | On passenger aircraft/rail: 5 L  
|              | On cargo aircraft only: 60 L     |
| Hazardous substance: | 5000 lbs, 2270 kg               |

<table>
<thead>
<tr>
<th>ADR</th>
</tr>
</thead>
</table>
| Exempt quantities (EQ) | Code: E2  
| Maximum net quantity per inner packaging: 30 ml  
| Maximum net quantity per outer packaging: 500 ml |

<table>
<thead>
<tr>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited quantities (LQ)</td>
</tr>
</tbody>
</table>
| Exempt quantities (EQ) | Code: E2  
| Maximum net quantity per inner packaging: 30 ml  
| Maximum net quantity per outer packaging: 500 ml |

| UN "Model Regulation": | UN 1090 ACETONE, 3, II |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
    - **Section 355 (extremely hazardous substances):**
      - Substance is not listed.
  - **Section 313 (Specific toxic chemical listings):**
    - 88-89-1 2,4,6-trinitrophenol
  - **TSCA (Toxic Substances Control Act):**
    - 67-64-1 Acetone, Reagent Grade  **ACTIVE**
    - 88-89-1 2,4,6-trinitrophenol  **ACTIVE**
  - **Hazardous Air Pollutants**
    - Substance is not listed.
  - **Proposition 65**
    - **Chemicals known to cause cancer:**
      - Substance is not listed.
    - **Chemicals known to cause reproductive toxicity for females:**
      - Substance is not listed.
    - **Chemicals known to cause reproductive toxicity for males:**
      - Substance is not listed.
    - **Chemicals known to cause developmental toxicity:**
      - Substance is not listed.
  - **Carcinogenic categories**
    - **EPA (Environmental Protection Agency)**
      - I
    - **TLV (Threshold Limit Value established by ACGIH)**
      - A4  

(Contd. on page 9)
Trade name: PICRIC ACID, 0.1% IN ACETONE

· NIOSH-Ca (National Institute for Occupational Safety and Health)
  Substance is not listed.
· GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms
  ![GHS07]

· Signal word Warning
· Hazard-determining components of labeling:
  Acetone, Reagent Grade
· Hazard statements
  Causes serious eye irritation.
  May cause drowsiness or dizziness.
· Precautionary statements
  Avoid breathing dust/fume/gas/mist/vapors/spray
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear eye protection / face protection.
  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.
  Call a poison center/doctor if you feel unwell.
  If eye irritation persists: Get medical advice/attention.
  Store in a well-ventilated place. Keep container tightly closed.
  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 preparation / last revision 08/15/2019 / -
· 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
  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

(Contd. on page 10)
**Trade name:** PICRIC ACID, 0.1% IN ACETONE

<table>
<thead>
<tr>
<th>REL: Recommended Exposure Limit</th>
<th>BEI: Biological Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3: Specific target organ toxicity (single exposure) – Category 3</td>
<td></td>
</tr>
</tbody>
</table>
1 Identification

- **Product identifier**
- **Trade name:** PICRIC ACID, 0.1% IN ACETONE
- **Article number:** 19553
- **CAS Number:** 67-64-1
- **EC number:** 200-662-2
- **Index number:** 606-001-00-8
- **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: sgkceck@aol.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**

  ![Exclamation Mark]
  **GHS 07**

  Eye Irrit. 2A  H319  Causes serious eye irritation.
  STOT SE 3  H336  May cause drowsiness or dizziness.

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

GHS07

Signal word: Warning

Hazard-determining components of labelling:
Acetone, Reagent Grade

Hazard statements:
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements:
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear eye protection / face protection.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
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: Substances
CAS No. Description
67-64-1 Acetone, Reagent Grade
Identification number(s)
EC number: 200-662-2
Index number: 606-001-00-8

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: Generally the product does not irritate the skin.

After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
5 Fire Fighting Measures

- Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 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: Not required.
- 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.

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: No special measures required.
- 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 container tightly sealed.
- 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:

<table>
<thead>
<tr>
<th>67-64-1 Acetone, Reagent Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>NES Short-term value: 2375 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>Long-term value: 1185 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>WES Short-term value: 2375 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>Long-term value: 1185 mg/m³, 500 ppm</td>
</tr>
</tbody>
</table>

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 eyes.
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:
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.

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

Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance:
Form: Liquid
Colour: Light yellow
Odour: Acetone-like
Odour threshold: Not determined.

pH-value: Not determined.

Change in condition
Melting point/freezing point: -94.7 °C
Initial boiling point and boiling range: 56.5 °C

- Flash point: -20 °C
- Flammability (solid, gas): Not applicable.
- Ignition temperature: 465 °C
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Not determined.

Explosion properties: Product does not present an explosion hazard.

Explosion limits:
| Lower | 2.6 Vol % |
| Upper | 13 Vol % |

Vapour pressure at 20 °C: 233 hPa

Density at 20 °C: 0.79 g/cm³
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 at 20 °C: | 32 mPaS |
| Kinematic:        | Not determined. |

Solvent content:
- Organic solvents: 99.9 %
- VOC (EC): 99.90 %

Solids content: 0.1 %
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:

<table>
<thead>
<tr>
<th>Acetone, Reagent Grade</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5,800 mg/kg (rat)</td>
<td>20,000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - Skin corrosion/irritation: No irritant effect.
  - Serious eye damage/irritation: Irritating effect.
  - Respiratory or skin sensitisation: No sensitising effects known.

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.
- Additional ecological information:
  - General notes:
    - Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
      - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - 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: UN1090

- UN proper shipping name
  - ADG: 1090 ACETONE
  - IMDG, IATA: ACETONE
Trade name: PICRIC ACID, 0.1% IN ACETONE

- Transport hazard class(es)
  - ADG, IMDG, IATA

- Class
  - 3 Flammable liquids.

- Label
  - 3

- Packing group
  - ADG, IMDG, IATA
  - II

- Environmental hazards:
  - Not applicable.

- Special precautions for user
  - Warning: Flammable liquids.
  - Danger code (Kemler): 33
  - EMS Number: F-E,S-D

- Stowage Category
  - E

- 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
    - 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 1090 ACETONE, 3, II

---

15 Regulatory information

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

- Australian Inventory of Chemical Substances
  - Substance is listed.

- Standard for the Uniform Scheduling of Medicines and Poisons
  - 67-64-1 Acetone, Reagent Grade
  - 88-89-1 2,4,6-trinitrophenol
  - $5
  - $4, $6

- GHS label elements
  - The substance is classified and labelled according to the Globally Harmonised System (GHS).
Trade name: PICRIC ACID, 0.1% IN ACETONE

- **Hazard pictograms**

  ![GHS07](image)

- **Signal word** Warning

- **Hazard-determining components of labelling:**
  Acetone, Reagent Grade

- **Hazard statements**
  Causes serious eye irritation.
  May cause drowsiness or dizziness.

- **Precautionary statements**
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear eye protection / face protection.
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  Continue rinsing.
  Call a POISON CENTER/doctor if you feel unwell.
  If eye irritation persists: Get medical advice/attention.
  Store in a well-ventilated place. Keep container tightly closed.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **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
  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
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
1 Identification

- Product identifier
  - Trade name: **PICRIC ACID, 0.1% IN ACETONE**
  - Article number: 19553
  - CAS Number: 67-64-1
  - EC number: 200-662-2
  - Index number: 606-001-00-8
- 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: sgkck@aol.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
  ![GHS07](image)
  - Eye Irritation - Category 2A  
    H319 Causes serious eye irritation.
  - Specific Target Organ Toxicity - Single Exposure - Category 3
    H336 May cause drowsiness or dizziness.

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

- Hazard pictograms
  ![GHS07](image)

- Signal word Warning

- Hazard-determining components of labeling:
  - Acetone, Reagent Grade

- Hazard statements
  - Causes serious eye irritation.
  - May cause drowsiness or dizziness.

- Precautionary statements
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - Use only outdoors or in a well-ventilated area.

(Contd. on page 2)
Trade name: PICRIC ACID, 0.1% IN ACETONE

Wear protective gloves/protective clothing/eye protection/face protection.
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.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
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 = 1
Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 2 Health = 2
FIRE 1 Fire = 1
REACTIVITY 0 Reactivity = 0

3 Composition/Information on ingredients

· Chemical characterization: Substances
· CAS No. Description
  67-64-1 Acetone, Reagent Grade
· Identification number(s)
  · EC number: 200-662-2
  · Index number: 606-001-00-8

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: Generally the product does not irritate the skin.
· After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· 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 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**: Use fire fighting measures that suit the environment.
- **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**: Not required.
- **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.

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**: No special measures required.
- **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.
  - **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**:
    - **67-64-1 Acetone, Reagent Grade**
      - **EL**
        - Short-term value: 500 ppm
        - Long-term value: 250 ppm
      - **EV**
        - Short-term value: 750 ppm
        - Long-term value: 500 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 eyes.
  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:
  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.
· 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: Light yellow
    Odor: Acetone-like
    Odor threshold: Not determined.
  · pH-value: Not determined.
  · Change in condition
    Melting point/Melting range: -94.7 °C
    Boiling point/Boiling range: 56.5 °C
  · Flash point: -20 °C
  · Flammability (solid, gaseous): Not flammable.
  · Ignition temperature: 465 °C
  · Decomposition temperature: Not determined.
  · Auto igniting: Not determined.
  · Danger of explosion: Product does not present an explosion hazard.
### Trade name: PICRIC ACID, 0.1% IN ACETONE

- **Explosion limits:**
  - Lower: 2.6 Vol %
  - Upper: 13 Vol %

- **Vapor pressure at 20 °C:** 233 hPa

- **Density at 20 °C:** 0.79 g/cm³

- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

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

- **Viscosity:**
  - Dynamic at 20 °C: 32 mPas
  - Kinematic: Not determined.
  - Organic solvents: 99.9 %

- **Solids content:** 0.1 %

### 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:**

    | 67-64-1 Acetone, Reagent Grade |
    |---------------------------------|
    | Oral   | LD50  | 5,800 mg/kg (rat) |
    | Dermal | LD50  | 20,000 mg/kg (rabbit) |

- **Primary irritant effect:**
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
  - Sensitization: No sensitizing effects known.

- **Additional toxicological information:**

- **Carcinogenic categories**

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

  Substance is not listed.
Safety Data Sheet
according to HPR, Schedule 1

Trade name: PICRIC ACID, 0.1% IN ACETONE

· NTP (National Toxicology Program)
  Substance is not 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.

· Additional ecological information:
  · General notes:
    Water hazard class 1 (Assessment by list): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 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: UN1090

· UN proper shipping name
  · DOT/TDG: Acetone
  · ADR: 1090 ACETONE
  · IMDG, IATA: ACETONE

· Transport hazard class(es)
  · DOT/TDG (Transport dangerous goods):
    · Class: 3 Flammable liquids
### Trade name: PICRIC ACID, 0.1% IN ACETONE

#### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
    - **Section 355 (extremely hazardous substances):** Substance is not listed.
    - **Section 313 (Specific toxic chemical listings):**
      - 88-89-1 2,4,6-trinitrophenol
    - **TSCA (Toxic Substances Control Act):**
      - 67-64-1 Acetone, Reagent Grade
      - 88-89-1 2,4,6-trinitrophenol

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<th>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</th>
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<td>Quantity limitations</td>
</tr>
<tr>
<td>On passenger aircraft/rail: 5 L</td>
</tr>
<tr>
<td>On cargo aircraft only: 60 L</td>
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<td>5000 lbs, 2270 kg</td>
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<th>UN &quot;Model Regulation&quot;:</th>
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<tbody>
<tr>
<td>UN 1090 ACETONE, 3, II</td>
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</table>
Trade name: PICRIC ACID, 0.1% IN ACETONE

- **Canadian substance listings:**
  - **Canadian Domestic Substances List (DSL)**
    Substance is listed.
  - **Canadian Ingredient Disclosure list (limit 0.1%)**
    Substance is not listed.
  - **Canadian Ingredient Disclosure list (limit 1%)**
    Substance is listed.

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
  
  GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**
  Acetone, Reagent Grade
- **Hazard statements**
  Causes serious eye irritation.
  May cause drowsiness or dizziness.
- **Precautionary statements**
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.
  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.
  Call a poison center/doctor if you feel unwell.
  If eye irritation persists: Get medical advice/attention.
  Store in a well-ventilated place. Keep container tightly closed.
  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** 08/15/2019 / -
- **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
  - 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
**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
  - Trade name: PICRIC ACID, 0.1% IN ACETONE
  - Article number: 19553
  - CAS Number: 67-64-1
  - EC number: 200-662-2
  - Index number: 606-001-00-8

- **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: sgkcck@aol.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

  ![GHS07]

  Eye Irrit. 2  H319  Causes serious eye irritation.
  STOT SE 3  H336  May cause drowsiness or dizziness.

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

- **Hazard pictograms**

  ![GHS07]

- **Signal word** Warning

- **Hazard-determining components of labelling:**
  - Acetone, Reagent Grade

- **Hazard statements**
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
Trade name: PICRIC ACID, 0.1% IN ACETONE

- Precautionary statements
  P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
  P280  Wear eye protection / face protection.
  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  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

- 3.1 Chemical characterisation: Substances
  - CAS No. Description
    67-64-1 Acetone, Reagent Grade
  - Identification number(s)
  - EC number: 200-662-2
  - Index number: 606-001-00-8

- Dangerous components:
  - CAS: 88-89-1  2,4,6-trinitrophenol ≤2.5%
  - EINECS: 201-865-9

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: Generally the product does not irritate the skin.
  - After eye contact:
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - 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 media: Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
Trade name: PICRIC ACID, 0.1% IN ACETONE

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 Not required.
6.2 Environmental precautions: 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.
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: No special measures required.
7.2 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 container tightly sealed.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

Ingredients with limit values that require monitoring at the workplace:

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<th>WEL Short-term</th>
<th>WEL Long-term</th>
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<tbody>
<tr>
<td>67-64-1</td>
<td>Acetone, Reagent Grade</td>
<td>3620 mg/m³, 1500 ppm</td>
<td>1210 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>88-89-1</td>
<td>2,4,6-trinitrophenol</td>
<td>0.3 mg/m³</td>
<td>0.1 mg/m³</td>
</tr>
</tbody>
</table>

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

- **Penetration time of glove material:**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **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: Light yellow
      - Odour: Acetone-like
      - Odour threshold: Not determined.
    - **pH-value:** Not determined.
  - **Change in condition**
    - Melting point/freezing point: -94.7 °C
    - Initial boiling point and boiling range: 56.5 °C
  - **Flash point:** -20 °C
  - **Flammability (solid, gas):** Not applicable.
  - **Ignition temperature:** 465 °C
  - **Decomposition temperature:** Not determined.
  - **Auto-ignition temperature:** Not determined.
  - **Explosive properties:** Product does not present an explosion hazard.
    - **Explosion limits:**
      - Lower: 2.6 Vol %
      - Upper: 13 Vol %
    - **Vapour pressure at 20 °C:** 233 hPa
    - **Density at 20 °C:** 0.79 g/cm³
    - **Relative density:** Not determined.
**Safety data sheet**

according to 1907/2006/EC, Article 31

---

**Trade name:** PICRIC ACID, 0.1% IN ACETONE

---

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** Not determined.
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** Not determined.
- **10.3 Possibility of hazardous reactions**
  - **Chemical stability:** Not determined.
- **10.4 Conditions to avoid**
  - Not determined.
- **10.5 Incompatible materials**
  - Not determined.
- **10.6 Hazardous decomposition products**
  - Not determined.

---

**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:**
    - **67-64-1 Acetone, Reagent Grade**
      - **Oral**
        - LD50 5,800 mg/kg (rat)
      - **Dermal**
        - LD50 20,000 mg/kg (rabbit)
  - **Primary irritant effect:**
    - **Skin corrosion/irritation**
      - Based on available data, the classification criteria are not met.
    - **Serious eye damage/irritation**
      - Causes serious eye irritation.
    - **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 drowsiness or dizziness.
    - **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.

---

(Contd. on page 6)
Trade name: PICRIC ACID, 0.1% IN ACETONE

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.
- **Additional ecological information:**
  - General notes:
    Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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 UN1090
- **14.2 UN proper shipping name**
  - ADR 1090 ACETONE
  - IMDG, IATA ACETONE
- **14.3 Transport hazard class(es)**
  - ADR, IMDG, IATA
  - **Class** 3 Flammable liquids.
  - **Label** 3
- **14.4 Packing group**
  - ADR, IMDG, IATA II
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user**
  - **Warning:** Flammable liquids.
  - Danger code (Kemler): 33
  - EMS Number: F-E,S-D
Safety data sheet  
according to 1907/2006/EC, Article 31  

Trade name: PICRIC ACID, 0.1% IN ACETONE  

<table>
<thead>
<tr>
<th>· Stowage Category</th>
<th>E</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</th>
<th>Not applicable.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>· Transport/Additional information:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>· ADR</td>
<td></td>
</tr>
<tr>
<td>· Limited quantities (LQ)</td>
<td>1L Code: E2</td>
</tr>
<tr>
<td>· Excepted quantities (EQ)</td>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per outer packaging: 500 ml</td>
</tr>
<tr>
<td>· Transport category</td>
<td>2</td>
</tr>
<tr>
<td>· Tunnel restriction code</td>
<td>D/E</td>
</tr>
<tr>
<td>· IMDG</td>
<td></td>
</tr>
<tr>
<td>· Limited quantities (LQ)</td>
<td>1L Code: E2</td>
</tr>
<tr>
<td>· Excepted quantities (EQ)</td>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per outer packaging: 500 ml</td>
</tr>
<tr>
<td>· UN &quot;Model Regulation&quot;:</td>
<td>UN 1090 ACETONE, 3, II</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>· Directive 2012/18/EU</td>
<td></td>
</tr>
<tr>
<td>· Named dangerous substances - ANNEX I Substance is not listed.</td>
<td></td>
</tr>
<tr>
<td>· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3</td>
<td></td>
</tr>
<tr>
<td>· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>· Relevant phrases</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H201 Explosive; mass explosion hazard.</td>
<td></td>
</tr>
<tr>
<td>H301 Toxic if swallowed.</td>
<td></td>
</tr>
<tr>
<td>H311 Toxic in contact with skin.</td>
<td></td>
</tr>
<tr>
<td>H331 Toxic if inhaled.</td>
<td></td>
</tr>
</tbody>
</table>

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
vPvB: very Persistent and very Bioaccumulative
ExpI.1.1: Explosives – Division I.1
Acute Tox. 3: Acute toxicity – Category 3
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 3
**RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming**

- **1.1 Productidentificatie**
  
  **Handelsnaam:** PICRIC ACID, 0.1% IN ACETONE
  
  **Artikelnummer:** 19553
  
  **CAS-nummer:** 67-64-1
  
  **EC-nummer:** 200-662-2
  
  **Catalogusnummer:** 606-001-00-8

- **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**
  
  Geen verdere relevante informatie verkrijgbaar.

- **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**
  
  **Fabrikant/leverancier:**
  
  Electron Microscopy Sciences  
  1560 Industry Road  
  USA-Hatfield, PA 19440  
  Tel: 215-412-8400  Fax: 215-412-8450  
  email: sgkccx@aol.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**

  ![GHS07]

  Eye Irrit. 2  H319  Veroorzaakt ernstige oogirritatie.

  STOT SE 3  H336  Kan slaperigheid of duizeligheid veroorzaken.

- **2.2 Etiketteringselementen**

  **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**

  De stof product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.

  **Gevarenpictogrammen**

  ![GHS07]
Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31

Handelsnaam: PICRIC ACID, 0.1% IN ACETONE

- Signaalwoord Waarschuwing
- Gevaaraanduidende componenten voor de etikettering:
  aceton
- Gevarenaanduidingen
  H319 Veroorzaakt ernstige oogirritatie.
  H336 Kan slaperigheid of duizeligheid veroorzaken.
- Veiligheidsaanbevelingen
  P261 Inademing van stof/rook/gas/nevel/damp/spuitnevel vermijden.
  P280 Oogbescherming / gelaatsbescherming dragen.
  P304+P340 NA INADEMING: de persoon in de frisse lucht brengen en ervoor zorgen dat deze gemakkelijk kan ademen.
  P305+P351+P338 BIJ CONTACT MET DE OGEN: voorzichtig afspuilen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.
  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

- 3.1 Chemische karakterisering: Stoffen
- CAS-Nr. omschrijving
  67-64-1 aceton
- Identificatienummer(s)
- EC-nummer: 200-662-2
- Catalogusnummer: 606-001-00-8

- Gevaarlijke inhoudstoffen:
  CAS: 88-89-1
  EINECS: 201-865-9
  2,4,6-trinitrofenol
  Expl. 1.1, H201; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ≤2.5%

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:
- Na huidcontact:
  Over het algemeen is het produkt niet prikkelend voor de huid
- Na oogcontact:
  De ogen gedurende verschillende minuten onder stromend water afspoelen terwijl de oogspleet geopend blijft. Bij aanhoudende klachten een dokter raadplegen.
- Na inslikken:
  Als de klachten niet minderen, een arts raadplegen
- 4.2 Belangrijkste acute en uitgestelde symptomen en effecten
  Geen verdere relevante informatie verkrijgbaar.
Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31

Bladzijde: 3/8
datum van de druk: 15.08.2019
Herziening van: 15.08.2019

Handelsnaam: PICRIC ACID, 0.1% IN ACETONE

- 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: Brandblusmaatregelen op omgeving afstemmen.

- 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, beschermde uitrusting en noodprocedures
Niet nodig.

- 6.2 Milieuvoorzorgsmaatregelen
Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.

- 6.3 Inschrijdings- en reinigingsmethoden en -materiaal:
Met vloeistofbindend materiaal (zand, bergmeel, zaarblinder, universele binder, zaagmeel) opnemen.
Besmet materiaal zoals afval volgens punt 13 verwijderen.
Voor voldoende ventilatie zorgen.

- 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.

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: Geen bijzondere maatregelen noodzakelijk.

- 7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten

- Opslag:
- Eisen ten opzichte van opslagruimte en tanks: Geen bijzondere eisen.
- Informatie m.b.t. gezamenlijke opslag: Niet noodzakelijk.

- 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 werkruiumte in acht genomen moeten worden:

<table>
<thead>
<tr>
<th>67-64-1 aceton</th>
<th>88-89-1 2,4,6-trinitrofenol</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGW Korte termijn waarde: 2420 mg/m³, 1000 ppm</td>
<td>WGW Lange termijn waarde: 0,1 mg/m³</td>
</tr>
<tr>
<td>Lange termijn waarde: 1210 mg/m³, 500 ppm</td>
<td></td>
</tr>
</tbody>
</table>

(Vervolg op blz. 4)
Aanvullende gegevens: Als basis dienden lijsten die bij opstelling geldig waren.

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 ogen 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 ademhalingsstoestel gebruiken.

Handbescherming:
Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.
Op grond van valende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliën mengsel afgegeven worden.
Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.

Handschonenaar
De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.

Doordringstijd 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

  - Vorm: Vloeistof
  - Kleur: Lichtgeel
  - Geur: Acetonachtig
  - Geurdrempelwaarde: Niet bepaald.

- pH-waarde: Niet bepaald.

- Toestandsverandering
  - Smelt-/vriespunt: -94,7 °C
  - Beginkookpunt en kooktraject: 56,5 °C

- Vlampunt: -20 °C

- Ontvlambaarheid (vast, gas): Niet bruikbaar.

- Ontstekingstemperatuur: 465 °C

- Ontledingstemperatuur: Niet bepaald.

- Zelfontbrandingstemperatuur: Niet bepaald.

- Ontploffingseigenschappen: Het produkt is niet ontploffingsgevaarlijk.
Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31

Handelsnaam: PICRIC ACID, 0.1% IN ACETONE

- Ontploffingsgrenzen:
  Onderste: 2,6 Vol %
  Bovenste: 13 Vol %

- Dampspanning bij 20 °C: 233 hPa

- Dichtheid bij 20 °C:
  Relatieve dichtheid: Niet bepaald.
  Dampdichtheid: Niet bepaald.
  Verdampings snelheid: Niet bepaald.

- Oplosbaarheid in/mengbaarheid met Water: Niet resp. gering mengbaar.

- Verdelingscoëfficiënt: n-octanol/water: Niet bepaald.

- Viscositeit
  Dynamisch bij 20 °C: 32 mPas
  Kinematisch: Niet bepaald.

- Oplosmiddelgehalte:
  Organisch oplosmiddel: 99,9 %
  VOC (EG): 99,90 %

- Gehalte aan vaste bestanddelen: 0,1 %

- 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 ontledingsproducten 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:

<table>
<thead>
<tr>
<th>67-64-1 aceton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oraal LD50</td>
</tr>
<tr>
<td>5,800 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermaal LD50</td>
</tr>
<tr>
<td>20,000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

- Primaire aandoening:
  - Huidcorrosie/-irritatie Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
  - Ernstig oogletsel/oogirritatie Veroorzaakt ernstige oogirritatie.
  - 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 geslachtszellen Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
**Handelsnaam:** PICRIC ACID, 0.1% IN ACETONE

- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gifigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling** Kan slaperigheid of duizeligheid veroorzaken.
- **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.
- ** Verdere ecologische informatie:**
  - **Algemene informatie:**
    - Waterbezwaarlijkheid (NL): B(4) Weinig schadelijk voor in water levende organismen
    - Gevaar voor water klasse 1 (D) (Lijstclassificatie): gevaar voor water klein
    - Niet onverdund of in grote hoeveelheden lozen in grondwater, in oppervlaktewater of in de riolering.
- **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: UN1090
- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**
  - ADR: 1090 ACETON
  - IMDG, IATA: ACETONE
- **14.3 Transportgevarenklasse(n)**
  - ADR, IMDG, IATA: 3 Brandbare vloeistoffen

(Vervolg op blz. 7)
Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31

datum van de druk: 15.08.2019

Handelsnaam: PICRIC ACID, 0.1% IN ACETONE

- **14.4 Verpakkingsgroep:**
  - ADR, IMDG, IATA
  - **II**

- **14.5 Milieugevaarven:**
  - **Niet bruikbaar.**

- **14.6 Bijzondere voorzorgen voor de gebruiker**
  - Kemler-getal:
    - **33**
  - EMS-nummer:
    - **F-E,S-D**
  - Stowage Category
    - **E**

- **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**
    - 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 1090 ACETON, 3, II**

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RUBRIEK 15: Regelgeving

- **15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel**
  - **SZW-lijst van kankerverwekkende stoffen**
    - De stof is niet aanwezig.
  - **SZW-lijst van mutagene stoffen**
    - De stof is niet aanwezig.
  - **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid**
    - De stof is niet aanwezig.
  - **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling**
    - De stof is niet aanwezig.
  - **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding**
    - De stof is niet aanwezig.
  - **Lijst Zeer Zorgwekkende Stoffen (ZZS)**
    - De stof is niet aanwezig.
  - **Lijst van Potentieel Zeer Zorgwekkende Stoffen**
    - De stof is niet aanwezig.
  - Richtlijn 2012/18/EU
    - Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I De stof is niet aanwezig.
  - Verordening (EG) nr. 1907/2006 BIJLAGE XVII Beperkingsvoorwaarden: 3

(Vervolg op blz. 8)
Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31

datum van de druk: 15.08.2019
Herziening van: 15.08.2019

Handelsnaam: PICRIC ACID, 0.1% IN ACETONE

· Nationale voorschriften:
  · Gevaarklasse v. water: Waterbezwaarlijkheid (NL): B(4) Weinig schadelijk voor in water levende organismen
  · 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 produkt eigenschappen en vestigen geen contractuele rechtsbetrekking.

· Relevante zinnen
  H201 Ontplofbare stof; gevaar voor massa-explosie.
  H301 Giftig bij inslikken.
  H311 Giftig bij contact met de huid.
  H331 Giftig bij inademing.

· 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
  vPvB: very Persistent and very Bioaccumulative
  Exp. 1.1: Ontplofbare stoffen – Subklasse 1.1
  Acute Tox. 3: Acute toxiciteit – Categorie 3
  Eye Irrit. 2: Ernstig oogletsel/oogirritatie – Categorie 2
  STOT SE 3: Specifieke doelorganotoxiciteit bij eenmalige blootstelling – Categorie 3
KOHTA 1: Aineen tai seoksen ja yhtiön tai yrityksen tunnistetiedot

- 1.1 Tuotetunniste
  - Kauppanimike: PICRIC ACID, 0.1% IN ACETONE
  - Artikkelinumero: 19553
  - CAS-numero: 67-64-1
  - EY-numero: 200-662-2
  - Indeksinumero: 606-001-00-8
  - 1.2 Aineen tai seoksen merkitykselliset tunnistetut käytöt ja käytöt, joita ei suositella
    Merkittäviä lisätietoja ei ole saatavilla.
  - Aineen / valmisteen käyttö Laboratoriokemikaalit
  - 1.3 Käyttöturvallisuustiedotteen toimittajan tiedot
    Valmistaja/toimittaja:
    Electron Microscopy Sciences
    1560 Industry Road
    USA-Hatfield, PA 19440
    Tel: 215-412-8400 Fax: 215-412-8450
    email: sgkcck@aol.com
    www.emsdiasum.com
    - Tietoja antaa: Product safety department
    - 1.4 Hätäpuhelinnumero:
      ChemTrec 1-800-424-9300 Contract CCN7661
      1-703-527-3887

KOHTA 2: Vaaran yksilöinti

- 2.1 Aineen tai seoksen luokitus
  - Luokitus asetuksen (EY) N:o 1272/2008 mukaisesti

  !
  GHS07

  Eye Irrit. 2 H319 Ärsyttää voimakkaasti silmiä.
  STOT SE 3 H336 Saattaa aiheuttaa uneliaisuutta ja huimausta.

- 2.2 Merkinnät
  - Varoitusmerkit

  !
  GHS07

  - Huomiosana Varoitus
  - Vaaran määräävät komponentit etiketeissä:
    - asetoni
  - Vaaralausekkeet
    H319 Ärsyyttävä voimakkaasti silmiä.
    H336 Saattaa aiheuttaa uneliaisuutta ja huimausta.
  - Turvalausekkeet
    P261 Vältä pölyn/savun/kaasun/sumun/höyryn/suihkeen hengittämistä.

(jatkuu sivulla 2)
Kauppanimike: PICRIC ACID, 0.1% IN ACETONE

- P280 Käytä silmiensuojuainta / kasvonsuojuainta.
- P304+P340 JOS KEMIKAALIA ON HENGITETTY: Siirrä henkilö raittiiseen ilmaan ja varmista vaivaton hengitys.
- P405 Varastoi lukitussa tilassa.
- P501 Säilytä sääliö(t) noudattamia paikallisia/lueellisia/kansallisia/kansainvälisiä määräyksiä.

KOHTA 3: Koostumus ja tiedot aineosista

- 3.1 Kemialliset ominaisuudet: Aineet
  - CAS-nro. nimike
    67-64-1 asetoni
  - Tunnistusnumero(t)
  - EY-numero: 200-662-2
  - Indeksinumero: 606-001-00-8

- Sisältää vaarallisia aineita:
  - CAS: 88-89-1
  - EINECS: 201-865-9
  - Pikrimihappo
  - Expl. 1.1, H201; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ≤2,5%

KOHTA 4: Ensiaputoimenpiteet

- 4.1 Ensiaputoimenpiteiden kuvaus
- Yleishohjeet:
  Myrkytysoireet voivat ilmaantua vasta useiden tuntien kuluttua. Tästä syystä henkilöt on pidettävä lääkärin tarkkailun alaisena ainakin 48 tuntia onnettomuuden jälkeen.
- Hengitysnäkö:
  Huolehdittava raittiin ilman saannista, tarvittaessa annettava tekohengitystä, pidettävä lämpimänä. Oireiden jatkuvassa pyydettävä lääkärin apua.
- Tajuton pidettävä ja kuljetettava kyljellään.
- Ihokosketuksessa: Aine ei oleensa ärsyttä ihoa.
- Aineen päästytä siihiin:
  Silmiä huuhdotaan luomet auki juoksevan veden alla useita minuutteja. Oireiden kestäessä käännytään lääkärin puoleen.
- Nieltyä: Käännytävä lääkärin puoleen oireiden jatkuvassa.
- 4.2 Tärkeimmät oireet ja vaikutukset, sekä välittömät että viivästynyt merkittäviä sisäisistä ja väsymyksistä, vaarat Merkittäviä lisätietoja ei ole saatavilla.
- 4.3 Mahdollisesti tarvittavaa valtottavan lääkenteellistä apua ja erityishoitoa koskevat ohjeet Merkittäviä lisätietoja ei ole saatavilla.

KOHTA 5: Palontorjuntatoimenpiteet

- 5.1 Sammutusaineet
- Sopivat sammutusaineet: Palontorjuntatoimenpiteet ympäristöä vastaavasti.
- 5.2 Aineesta tai seoksesta johtuvat erityiset vaarat Merkittäviä lisätietoja ei ole saatavilla.
Kauppanimike: PICRIC ACID, 0.1% IN ACETONE

- 5.3 Palontorjuntaa koskevat ohjeet
- Erityinen suojavarustus: Käytettävä hengityssuojaointa.

KOHTA 6: Toimenpiteet onnettomuuspäästöissä

- 6.1 Varotoimenpiteet, henkilöönsuojaimet ja menetellyt hätätilanteessa
Ei tarvita.
- 6.2 Ympäristöön kohdistuvat vaarat
Estettävä pääsy viemäreihin/pintavesiin/pohjaveeenn.
- 6.3 Suojarakenteita ja puhdistusta koskevat menetelmät ja -välineet:
Imettävät nestettä sitovalla aineella (hierricka, piimaa, hapon sidoksainen, yleisidosainen, sahajaunha).
Saastunut aine on jätteenä hävitettävä kohdan 13 mukaisesti.
Huolehdittava riittävänä tuuletuksesta.
- 6.4 Viittaukset muihin kohtiin
Turvallista käsitteilyä koskevia ohjeita kappaleessa 7.
Henkilöönsuojaita suojavarustusta koskevia ohjeita kappaleessa 8.
Aineen hävitystä koskevia ohjeita kappaleessa 13.

KOHTA 7: Käsittely ja varastointi

- 7.1 Turvallisen käsittelyn edellyttämät toimenpiteet
Huolehdittava hyvästä tuuletuksesta/imusta työpaikalla.
Vältettävä aerosolin muodostusta.
- 7.2 Turvallisen varastoinnin edellyttämät olosuhteet, mukaan luettuina yhteensopimattomuudet
Varastointi:
- Varastotiloille ja säiliöille asetettavat vaatimukset: Ei erikoisvaatimuksia.
- Yhteisvarastointiohjeet: Ei tarvita.
- Lisätietoja varastointiehtoihin: Astiat on pidettävä tiiviisti suljetuina.

KOHTA 8: Altistumisen ehkäiseminen ja henkilöönsuojaimet

- Lisäohjeita teknisten laitteiden varastukseen: Ei muita tietoja, ks. kohta 7.

- 8.1 Valvontaa koskevat muuttujat
Aineosat työpaikkakohdaisen valvottavin raja-arvoin:

<table>
<thead>
<tr>
<th>Aineosat</th>
<th>HTP</th>
<th>Lyhytaikaisarvo</th>
<th>Pitkäaikaisarvo</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>Asetoni</td>
<td>Lyhtytaikaisarvo: 1500 mg/m³, 630 ppm</td>
<td>Pitkäaikaisarvo: 1200 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>88-89-1</td>
<td>Pikriininhappo</td>
<td>Lyhtytaikaisarvo: 0,3 mg/m³</td>
<td>Pitkäaikaisarvo: 0,1 mg/m³</td>
</tr>
</tbody>
</table>

- Lisäohjeet: Tiedot perustuvat valmistushetkellä voimassaoleviin luetteloihin.

- 8.2 Altistumisen ehkäiseminen
- Henkilöönsuojat
- Yleiset suoja- ja hygieniaitoimenpiteet:
Pidettävä loitolla elintarvikkeista, juomista ja rehuista.
Likaantuneet, aineen saastuttamat vaatekappaleet on ruisuttava välittömästi.
Kädet on pestävä ennen taukoja ja työn päätyttyä.
KOHTA 9: Fysikaaliset ja kemialliset ominaisuudet

9.1 Fysikaalisia ja kemiallisia perusominaisuuksia koskevat tiedot

- Yleiset ohjeet
- Olomuoto:
  - Muoto: Neste
  - Väri: Vaalean keltainen
  - Haju: Asetonimainen
  - Hajukynnys: Ei määrätty.
- pH-arvo: Ei määrätty.
- Tilanmuutos:
  - Sulamis- tai jäätymispiste: -94,7 °C
  - Kiehumispiste: 56,5 °C
- Leimahduspiste: -20 °C
- Syttyvyys (kiinteät aineet, kaasut): Ei voida käyttää.
- Syttymislämpötila: 465 °C
- Hajoamislämpötila: Ei määrätty.
- Itsepyytyminislämpötila: Ei määrätty.
- Räjähdyvyys: Tuote ei ole räjähdyssvaarallinen.
- Räjähdyssrajoit:
  - Alempi: 2,6 Vol %
  - Ylempi: 13 Vol %
- Höyrypaine 20 °C lämpötilassa: 233 hPa
- Tiheys 20 °C lämpötilassa: 0,79 g/cm³
- Suhteellinen tiheys: Ei määrätty.
Kauppanimike: PICRIC ACID, 0.1% IN ACETONE

- Höyryntiheys: Ei määrätty.
- Haltumisnopeus: Ei määrätty.

- Liukenevuus/sekoittuvuus veteen: Ei sekoittuva tai vain osittain sekoittuva.

- Jakautumiskerroin: n-oktanoli/vesi: Ei määrätty.

- Viskositeetti:
  - Dynaaminen 20 °C lämpötilassa: 32 mPas
  - Kinemaattinen: Ei määrätty.

- Liuoteaineepitoisuus:
  - Orgaaniset liuoteaineet: 99,9 %
  - VOC (EY): 99,90 %

- Kiinneaineepitoisuus: 0,1 %

- 9.2 Muut tiedot
  - Merkittäviä lisätietoja ei ole saatavilla.

KOHTA 10: Stabiilisuus ja reaktiivisuus

- 10.1 Reaktiivisuus Merkittäviä lisätietoja ei ole saatavilla.
- 10.2 Kemiallinen stabiilisuus
  - Terminen hajoavuus / vällettävät olosuhteet: Ei hajaantumista määräystenmukaisessa käytössä.
  - 10.3 Vaarallisten reaktioiden mahdollisuus: Ei tiedossa vaarallisia reaktioita.
  - 10.4 Vältettävät olosuhteet: Merkittäviä lisätietoja ei ole saatavilla.
  - 10.5 Vaarallisten hajoamistuotteet: Tiedossa ei ole vaarallisia hajoamistuotteita.

KOHTA 11: Myrkyllisyteen liittyvät tiedot

- 11.1 Tiedot myrkyllisistä vaikutuksista
  - Välitön myrkyllisyys: Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

- Luokittelurelevantti LD/LC50-arvot:
  - 67-64-1 asetoni
    - Oraali LD50 5.800 mg/kg (rat)
    - Dermaali LD50 20.000 mg/kg (rabbit)

- Ensisijainen ärsyttävä vaikutus:
  - Ihosyövyttävyyys/hoäräsyys: Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
  - Vaikaa silmävaurio/silmä-ärsytys
    - Ärsyttää voimakkaasti silmiä.
  - Hengitysteiden tai ihon herkistyminen: Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
  - CMR-vaikutukset eli syöpää aiheuttavat, perimää vaurioittavat ja lisääntymiselle vaaralliset vaikutukset
  - Sukusolujen perimää vaurioittavat vaikutukset: Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
  - Syöpää aiheuttavat vaikutukset: Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
  - Lisääntymiselle vaaralliset vaikutukset: Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
  - Elinohtainen myrkyllisyys – toistuva altistuminen: Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.
Käyttöturvallisuustiedote
1907/2006/EY, 31 artikla mukainen

Sivu: 6/7
Painatuspäivämäärä 15.08.2019
Kauppanimike: PICRIC ACID, 0.1% IN ACETONE

Aspiraatiovaara
Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

KOHTA 12: Tiedot vaarallisuudesta ympäristölle

12.1 Myrkyllisyys
12.2 Pysyvyys ja hajoavuus
12.3 Biokertyvyys
12.4 Liikkuvuus maaperässä
12.5 PBT- ja vPvB-arvioinnin tulokset
12.6 Muut haitalliset vaikutukset

KOHTA 13: Jätteiden käsittelyyn liittyvät näkökohdat

13.1 Jätteiden käsittelymenetelmät
13.2 Puhdistamattomat pakkaukset

KOHTA 14: Kuljetustiedot

14.1 YK-numero
14.2 Kuljetuksessa käytettävä virallinen nimi
14.3 Kuljetuksen vaaraluokka
14.4 Pakkausryhmä
14.5 Ympäristövaarat
14.6 Erityiset varotoimet käyttäjälle

(jatkuu sivulla 7)
Käyttöturvallisuustiedote
1907/2006/EY, 31 artikla mukainen

Kauppanimike: PICRIC ACID, 0.1% IN ACETONE

- Stowage Category
  E

- 14.7 Kuljetus irtolastina Marpol-sopimuksen II lūtteen ja IBC-säännöstön mukaisesti
  Ei voida käyttää.

- Kuljetuslisätietoja:
  - ADR
  1L
  Koodi: E2
  Enimmäisnettomäärä sisäpakkausta kohti: 30 ml
  Enimmäisnettomäärä ulkopakkausta kohti: 500 ml
  - Kuljetuskategoria
  2
  - Tunnelirajoituskoodi:
    D/E
  - IMDG
  - Limited quantities (LQ)
  1L
  Code: E2
  Maximum net quantity per inner packaging: 30 ml
  Maximum net quantity per outer packaging: 500 ml
  - Exempted quantities (EQ)
  - UN "Model Regulation":
    UN 1090 ASETONI, 3, II

KOHTA 15: Lainsäädäntöö koskevat tiedot

- 15.1 Nimenomaisesti ainetta tai seosta koskevat turvallisuus-, terveys- ja ympäristösäännökset tai -lainsäädäntö
- Direktiivi 2012/18/EU
- Nimetyt vaaralliset aineet - LIITE I Aine ei sisälly
- NEUVOSTON ASETUS (EY) N:o 1907/2006 LIITE XVII Rajoitusehdot: 3
- 15.2 Kemikaaliturvallisuusarviointi: Kemikaaliturvallisuusarviointia ei ole tehty.

KOHTA 16: Muut tiedot

Annetut tiedot perustuvat tämänhetkisiin tietoihin. Ne eivät kuitenkaan anna takuuta tuotteen ominaisuuksista eivätkä aikaansaa sopimuksestalla oikeussuhdetta.

- Asiaankuuluvat lausekkeet
  H201 Räjähde; massaräjähdydsaava.
  H301 Myrkyllistä niihdytynä.
  H311 Myrkyllistä joutuessaan iholle.
  H331 Myrkyllistä hengitettynä.
- Lyhenteet ja lyhytnimet:
  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
  vPvB: very Persistent and very Bioaccumulative
  Expl. 1.1: Räjähteet – Vaarallisuusluokka 1.1
  Acute Tox. 3: Välttöön myrkyllisyys – Kategoria 3
  Eye Irrit. 2: Vakava silmävaario/silmä-ärsytys – Kategoria 2
  STOT SE 3: Elinohtainen myrkyllisyys (kerta-altistuminen) – Kategoria 3
Fiche de données de sécurité
selon 1907/2006/CE, Article 31

Date d'impression : 15.08.2019
Révision: 15.08.2019

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

1.1 Identificateur de produit

· Nom du produit: PICRIC ACID, 0.1% IN ACETONE
· Code du produit: 19553
· No CAS: 67-64-1
· Numéro CE: 200-662-2
· Numéro index: 606-001-00-8

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: sgkck@aol.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

GHS07

Eye Irrit. 2 H319 Provoque une sévère irritation des yeux.
STOT SE 3 H336 Peut provoquer somnolence ou vertiges.

2.2 Éléments d'étiquetage

· Étiquetage selon le règlement (CE) n° 1272/2008 La substance est classifiée et étiquetée selon le règlement CLP.
· Pictogrammes de danger

GHS07

· Mention d'avertissement Attention

· Composants dangereux déterminants pour l'étiquetage:
  acétone

· Mentions de danger
  H319 Provoque une sévère irritation des yeux.
  H336 Peut provoquer somnolence ou vertiges.

· Conseils de prudence
  P261 Éviter de respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.

(suite page 2)
**Fiche de données de sécurité**  
*selon 1907/2006/CE, Article 31*

**Nom du produit:** PICRIC ACID, 0.1% IN ACETONE

- **P280** Porter un équipement de protection des yeux / un équipement de protection du visage.
- **P304+P340** EN CAS D’INHALATION: transporter la personne à l’extérieur et la maintenir dans une position où elle peut confortablement respirer.
- **P305+P351+P338** EN CAS DE CONTACT AVEC LES YEUX: rincer avec précaution à l’eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.
- **P405** Garder sous clef.
- **P501** Éliminer le contenu/réciipient 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**

- **3.1 Caractérisation chimique: Substances**
  - **No CAS Désignation**
    - 67-64-1 acétone
  - **Code(s) d’identification**
    - **Numéro CE:** 200-662-2
    - **Numéro index:** 606-001-00-8
  - **Composants dangereux:**
    - CAS: 88-89-1
    - EINECS: 201-865-9
    - **2,4,6-trinitrophénoles**
      - Explosif 1.T, H201; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ≤2,5%

**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:** En règle générale, le produit n’irrite pas la peau.
  - **Après contact avec les yeux:**
    - Rincer les yeux, pendant plusieurs minutes, sous l’eau courante en écartant bien les paupières. Si les troubles persistent, consulter un médecin.
  - **Après ingestion:** Si les troubles persistent, consulter un médecin.
- **4.2 Principaux symptômes et effets** 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:** Adapter les mesures d’extinction d’incendie à l’environnement.
**Nom du produit:** PICRIC ACID, 0.1% IN ACETONE

- **5.2 Dangers particuliers résultant de la substance ou du mélange**
  Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
  - Equipement 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** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**
  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).
  Evacuer les matériaux contaminés en tant que déchets conformément au point 13.
  Assurer une aération suffisante.
- **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.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
  - Stockage:
    - Exigences concernant les lieux et conteneurs de stockage: Aucune exigence particulière.
    - Indications concernant le stockage commun: Pas nécessaire.
    - Autres indications sur les conditions de stockage: Tenir les emballages hermétiquement fermés.
- **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:
    | 67-64-1 acétone |
    |-----------------|
    | VME Valeur momentanée: 2420 mg/m³, 1000 ppm |
    | Valeur à long terme: 1210 mg/m³, 500 ppm |
    | 88-89-1 2,4,6-trinitrophénol |
    | VME Valeur à long terme: 0,1 mg/m³ |
    | Risque de pénétration percutanée |
- **Remarques supplémentaires:**
  Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.
8.2 Contrôles de l'exposition
Équipement 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.
Éviter tout contact avec les yeux.
Éviter 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:
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 ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.

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:

---

RUBRIQUE 9: Propriétés physiques et chimiques

- 9.1 Informations sur les propriétés physiques et chimiques essentielles
  Indications générales
  Aspect:
  Forme: Liquide
  Couleur: Jaune clair
  Odeur: Genre acétone
  Seuil olfactif: Non déterminé.
  Valeur du pH: Non déterminé.

  Changement d'état
  Point de fusion/point de congélation: -94,7 °C
  Point initial d'ébullition et intervalle d'ébullition: 56,5 °C

  Point d'éclair: -20 °C
  Inflammabilité (solide, gaz): Non applicable.
  Température d'inflammation: 465 °C
  Température de décomposition: Non déterminé.
  Température d'auto-inflammabilité: Non déterminé.
  Propriétés explosives: Le produit n'est pas explosif.
Nom du produit: PICRIC ACID, 0.1% IN ACETONE

- Limites d'explosion:
  - Inférieure: 2,6 Vol %
  - Supérieure: 13 Vol %
- Pression de vapeur à 20 °C: 233 hPa
- Densité à 20 °C: 0,79 g/cm³
  - 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 à 20 °C: 32 mPas
  - Cinématique: Non déterminé.
- Teneur en solvants:
  - Solvants organiques: 99,9 %
  - VOC (CE): 99,90 %
  - Teneur en substances solides: 0,1 %
- 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:
  67-64-1 acétone
  - Oral LD50: 5.800 mg/kg (rat)
  - Dermique LD50: 20.000 mg/kg (lapin)
- 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
    - Provoque une sévère irritation des yeux.
  - Sensibilisation respiratoire ou cutanée
    - Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
Fiche de données de sécurité
selon 1907/2006/CE, Article 31

Nom du produit: PICRIC ACID, 0.1% IN ACETONE

(suite de la page 5)

- Effets CMR (cancérogène, mutagène et toxique pour la reproduction)
- Mutagénicité 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
  Peut provoquer somnolence ou vertiges.
- 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.

(suite de la page 7)

RUBRIQUE 12: Informations écologiques

- 12.1 Toxicité
  - Toxicité aquatique: Pas d'autres informations importantes disponibles.
- 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.
- Autres indications écologiques:
  - Indications générales: 
    Catégorie de pollution des eaux 1 (D) (classification selon liste): peu polluant 
    Ne pas laisser le produit, non dilué ou en grande quantité, pénétrer la nappe phréatique, les eaux ou les canalisations.
- 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

- 14.1 Numéro ONU
  - ADR, IMDG, IATA UN1090
- 14.2 Désignation officielle de transport de l'ONU
  - ADR
    1090 ACÉTONE
  - IMDG, IATA
    ACETONE

(suite page 7)
Nom du produit: PICRIC ACID, 0.1% IN ACETONE

- 14.3 Classe(s) de danger pour le transport
  - ADR, IMDG, IATA
    - Classe
      - 3 Liquides inflammables.
    - Étiquette
      - 3

- 14.4 Groupe d'emballage
  - ADR, IMDG, IATA
    - II

- 14.5 Dangers pour l'environnement:
  - Non applicable.

- 14.6 Précautions particulières à prendre par l'utilisateur
  - Attention: Liquides inflammables.
    - Indice Kemler:
      - 33
    - No EMS:
      - F-E,S-D
    - Stowage Category
      - E

- 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
      - 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
      - Code: E2
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml
    - Excepted quantities (EQ)
      - Code: E2

- "Règlement type" de l'ONU:
  - UN 1090 ACÉTONE, 3, II

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 la substance n’est pas comprise
  - RÈGLEMENT (CE) N° 1907/2006 ANNEXE XVII Conditions de limitation: 3
  - 15.2 Évaluation de la sécurité chimique: Une évaluation de la sécurité chimique n’a pas été réalisée.
Nom du produit: PICRIC ACID, 0.1% IN ACETONE

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
  H201 Explosif; danger d’explosion en masse.
  H301 Toxique en cas d’ingestion.
  H311 Toxique par contact cutané.
  H331 Toxique par inhalation.

- 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
  vPvB: very Persistent and very Bioaccumulative
  Expl. 1.1: Explosibles – Division 1.1
  Acute Tox. 3: Toxicité aiguë – Catégorie 3
  Eye Irrit. 2: Lésions oculaires graves/irritation oculaire – Catégorie 2
  STOT SE 3: Toxicité spécifique pour certains organes cibles (exposition unique) – Catégorie 3
ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· 1.1 Produktidentifikator

- Handelsname: PICRIC ACID, 0.1% IN ACETONE
- Artikelnummer: 19553
- CAS-Nummer: 67-64-1
- EG-Nummer: 200-662-2
- Indexnummer: 606-001-00-8

· 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: sgkcck@aol.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 München, www.toxinfo.org
  Österreich: +43 1406 43 43, Gesundheit Österreich GmbH, 24 h

- Auskunftgebender Bereich: 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

GHS07

Eye Irrit. 2 H319 Verursacht schwere Augenreizung.
STOT SE 3 H336 Kann Schläfrigkeit und Benommenheit verursachen.

· 2.2 Kennzeichnungselemente
- Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008
  Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
Handelsname: PICRIC ACID, 0.1% IN ACETONE

- Gefahrenpiktogramme

GHS07

- Signalwort Achtung

- Gefahrbestimmende Komponenten zur Etikettierung:
  Aceton

- Gefahrenhinweise
  H319 Verursacht schwere Augenreizung.
  H336 Kann Schläfrigkeit und Benommenheit verursachen.

- Sicherheitshinweise
  P261 Einatmen von Staub/Rauch/Gas/Nebel/Dampf/Aerosol vermeiden.
  P280 Augenschutz / Gesichtsschutz tragen.
  P304+P340 BEI EINATMEN: Die Person an die frische Luft bringen und für ungehinderte Atmung sorgen.
  P405 Unter Verschluss aufbewahren.

- 2.3 Sonstige Gefahren
- Ergebnisse der PBT- und vPvB-Beurteilung
  - PBT: Nicht anwendbar.
  - vPvB: Nicht anwendbar.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

- 3.1 Chemische Charakterisierung: Stoffe
  - CAS-Nr. Bezeichnung
    67-64-1 Aceton
  - Identifikationsnummer(n)
    - EG-Nummer: 200-662-2
    - Indexnummer: 606-001-00-8
  - Gefährliche Inhaltsstoffe:
    CAS: 88-89-1 2,4,6-Trinitrophenol
    EINECS: 201-865-9
    Explos. 1.1, H201; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ≤2,5%

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:
  - Nach Hautkontakt: Im allgemeinen ist das Produkt nicht hautreizend.

(Fortsetzung auf Seite 3)
Handelsname: PICRIC ACID, 0.1% IN ACETONE

- Nach Augenkontakt:
  Augen mehrere Minuten bei geöffnetem Lidspalt unter fließendem Wasser spülen. Bei anhaltenden Beschwerden Arzt konsultieren.
- 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: Feuerlöschmaßnahmen auf die Umgebung abstimmen.

- 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
  Nicht erforderlich.

- 6.2 Umweltschutzmaßnahmen: 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.

- 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.

- Hinweise zum Brand- und Explosionsschutz: Keine besonderen Maßnahmen erforderlich.

- 7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten
  Lagerung:
  - Anforderung an Lagerräume und Behälter: Keine besonderen Anforderungen.
  - Zusammenlagerungshinweise: Nicht erforderlich.
  - Weitere Angaben zu den Lagerbedingungen: Behälter dicht geschlossen halten.

- Lagerklasse:
  - Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV): -

- 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**

<table>
<thead>
<tr>
<th>Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 Aceton</td>
</tr>
<tr>
<td>AGW Langzeitwert: 1200 mg/m³, 500 ml/m³</td>
</tr>
<tr>
<td>2(I);AGS, DFG, EU, Y</td>
</tr>
<tr>
<td>88-89-1 2,4,6-Trinitrophenol</td>
</tr>
<tr>
<td>AGW Langzeitwert: 0,1 E mg/m³</td>
</tr>
<tr>
<td>1(I);H, EU, 13</td>
</tr>
</tbody>
</table>

- **Bestandteile mit biologischen Grenzwerten:**

<table>
<thead>
<tr>
<th>Bestandteile mit biologischen Grenzwerten:</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 Aceton</td>
</tr>
<tr>
<td>BGW 80 mg/l</td>
</tr>
<tr>
<td>Untersuchungsmaterial: Urin</td>
</tr>
<tr>
<td>Probennahmezeitpunkt: Expositionsende bzw. Schichtende</td>
</tr>
<tr>
<td>Parameter: Aceton</td>
</tr>
</tbody>
</table>

- **Zusätzliche Hinweise:** Als Grundlage dienten 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.
  - Beschmutzte, getränkte Kleidung sofort ausziehen.
  - Vor den Pausen und bei Arbeitsende Hände waschen.
  - Berührung mit den Augen vermeiden.
  - Berührung mit den Augen und der Haut vermeiden.

- **Atemschutz:**
  - Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition umluftunabhängiges Atemschutzgerät verwenden.

- **Handschutz:**
  - 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.

- **Durchdringungszeit des Handschuhmaterials**
  - Die genaue Durchbruchzeit ist beim Schutzhandschuhersteller 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:** Flüssigkeit
  - **Farbe:** Hellgelb
  - **Geruch:** Acetonartig
  - **Geruchsschwelle:** Nicht bestimmt.
- **pH-Wert:** Nicht bestimmt.
- **Zustandsänderung**
  - **Schmelzpunkt/Gefrierpunkt:** -94,7 °C
  - **Siedebeginn und Siedebereich:** 56,5 °C
- **Flammpunkt:** -20 °C
- **Entzündbarkeit (fest, gasförmig):** Nicht anwendbar.
- **Zündtemperatur:** 465 °C
- **Zersetzungstemperatur:** Nicht bestimmt.
- **Selbstentzündungstemperatur:** Nicht bestimmt.
- **Explosive Eigenschaften:** Das Produkt ist nicht explosionsgefährlich.
- **Explosionsgrenzen:**
  - Untere: 2,6 Vol %
  - Obere: 13 Vol %
- **Dampfdruck bei 20 °C:** 233 hPa
- **Dichte bei 20 °C:** 0,79 g/cm³
- **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 bei 20 °C: 32 mPas
  - Kinematisch: Nicht bestimmt.
- **Lösemittelgehalt:**
  - Organische Lösemittel: 99,9 %
  - VOC (EU): 99,90 %
- **Festkörpergehalt:** 0,1 %
- **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.
Handelsname: PICRIC ACID, 0.1% IN ACETONE

10.2 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.

11.1 Angaben zu toxikologischen Wirkungen

11.2 Acute Toxizität
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.3 Einstufungsrelevante LD/LC50-Werte:

<table>
<thead>
<tr>
<th>67-64-1 Aceton</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>5.800 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>20.000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

11.4 Primäre Reizwirkung:

11.5 Schwere Augenschädigung/-reizung
Verursacht schwere Augenreizung.

11.6 Sensibilisierung der Atemwege/Haut
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.7 CMR-Wirkungen (krebsverursend, erbguetverändernde und fortpflanzungsgefährdende Wirkung)
Keimzell-Mutgenität: Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.8 Karzinogenität
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.9 Reproduktionsfähigkeit: Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.10 Spezifische Zielorgan-Toxizität bei einmaliger Exposition
Kann Schläfrigkeit und Benommenheit verursachen.

11.11 Spezifische Zielorgan-Toxizität bei wiederholter Exposition
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.12 Aspirationsgefahr
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12.1 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.

12.5 Ergebnisse der PBT- und vPvB-Beurteilung
PBT: Nicht anwendbar.

12.6 Andere schädliche Wirkungen
Keine weiteren relevanten Informationen verfügbar.

13.1 Hinweise zur Entsorgung
Verfahren der Abfallbehandlung
Empfehlung: Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.

(Fortsetzung auf Seite 7)
ABSCHNITT 14: Angaben zum Transport

- 14.1 UN-Nummer
  - ADR, IMDG, IATA UN1090

- 14.2 Ordnungsgemäße UN-Versandbezeichnung
  - ADR 1090 ACETON
  - IMDG, IATA ACETONE

- 14.3 Transportgefahrenklassen
  - ADR, IMDG, IATA

  - Klasse 3 Entzündbare flüssige Stoffe
  - Gefahrzettel 3

- 14.4 Verpackungsgruppe
  - ADR, IMDG, IATA II

- 14.5 Umweltgefahren:
  - Nicht anwendbar.

- 14.6 Besondere Vorsichtsmaßnahmen für den Verwender
  - Kemler-Zahl: 33
  - EMS-Nummer: F-E,S-D
  - Stowage Category E

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

- 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 1090 ACETON, 3, II

(Fortsetzung auf Seite 8)
Handelsname: PICRIC ACID, 0.1% IN ACETONE

ABSCHNITT 15: Rechtsvorschriften

- 15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/specifische Rechtsvorschriften für den Stoff oder das Gemisch
  - Richtlinie 2012/18/EU
  - Namentlich aufgeführte gefährliche Stoffe - ANHANG I Der Stoff ist nicht enthalten.
  - VERORDNUNG (EG) Nr. 1907/2006 ANHANG XVII Beschränkungsbedingungen: 3
  - Nationale Vorschriften:

Technische Anleitung Luft:

<table>
<thead>
<tr>
<th>Klasse</th>
<th>Anteil in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>0,1</td>
</tr>
<tr>
<td>NK</td>
<td>99,9</td>
</tr>
</tbody>
</table>

- Wassergefährdungsklasse: WGK 1 (Listeneinstufung): schwach wassergefährdend.
- 15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

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
  H201 Explosiv, Gefahr der Massenexplosion.
  H301 Giftig bei Verschlucken.
  H311 Giftig bei Hautkontakt.
  H331 Giftig bei Einatmen.

- Abkürzungen und Akronymen:
  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 Harmonized 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
  vPoP: very Persistent and very Bioaccumulative
  Expl. 1.1: Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff – Unterklasse 1.1
  Acute Tox. 3: Akute Toxizität – Kategorie 3
  Eye Irrit. 2: Schwere Augenschädigung/Augenreizung – Kategorie 2
  STOT SE 3: Spezifische Zielorgan-Toxizität (einmalige Exposition) – Kategorie 3
SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

1.1 Identificatore del prodotto

· Denominazione commerciale: PICRIC ACID, 0.1% IN ACETONE

· Articolo numero: 19553
· Numero CAS: 67-64-1
· Numeri CE: 200-662-2
· Numero indice: 606-001-00-8

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: sgkcek@aol.com
  www.emsdiasum.com

  Societa 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
  GHS07
  Eye Irrit. 2  H319  Provoca grave irritazione oculare.
  STOT SE 3  H336  Può provocare sonnolenza o vertigini.

2.2 Elementi dell'etichetta

· Etichettatura secondo il regolamento (CE) n. 1272/2008
  La sostanza è classificata ed etichettata conformemente al regolamento CLP.

· Pittogrammi di pericolo

GHS07

(continua a pagina 2)
**Scheda di dati di sicurezza**
ai sensi del regolamento 1907/2006/CE, Articolo 31

**Denominazione commerciale:** PICRIC ACID, 0.1% IN ACETONE

- **Avvertenza** Attenzione
- **Componenti pericolosi che ne determinano l’etichettatura:**
  - acetone
- **Indicazioni di pericolo**
  - H319 Provoca grave irritazione oculare.
  - H336 Può provocare sonnolenza o vertigini.
- **Consigli di prudenza**
  - P261 Evitare di respirare la polvere/i fumi/i gas/la nebbia/i vapore/i gli aerosol.
  - P280 Indossare protezione per occhi / protezione per il viso.
  - P304+P340 IN CASO DI INALAZIONE: trasportare l’infortunato all’aria aperta e mantenerlo a riposo in posizione che favorisca la respirazione.
  - P305+P351+P338 IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti.
  - P405 Conservare sotto chiave.
  - 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**

- **3.1 Caratteristiche chimiche: Sostanze**
  - **Numero CAS** 67-64-1 acetone
  - **Numero di identificazione**
    - **Numero CE:** 200-662-2
    - **Numero indice:** 606-001-00-8

<table>
<thead>
<tr>
<th>Sostanze pericolose:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 88-89-1</td>
</tr>
<tr>
<td>EINECS: 201-865-9</td>
</tr>
<tr>
<td>2,4,6-trinitrofenolo</td>
</tr>
<tr>
<td>Expl. 1,1, H201; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331</td>
</tr>
</tbody>
</table>

**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:** Generalmente il prodotto non è irritante per la pelle.
  - **Contatto con gli occhi:**
    Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte Se persiste il dolore consultare il medico.
  - **Ingestione:** Se il dolore persiste consultare il medico.

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

(Segue da pagina 1)
Scheda di dati di sicurezza
da sensi del regolamento 1907/2006/CE, Articolo 31

Denominazione commerciale: PICRIC ACID, 0.1% IN ACETONE

(SEgue da pagina 2)

- 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: Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- 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 Non necessario.
- 6.2 Precauzioni ambientali: 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.
- 6.4 Riferimento ad altre sezioni
Per informazioni relative ad un 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: Non sono richiesti provvedimenti particolari.
- 7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità
- Stoccaggio:
- Requisiti dei magazzini e dei recipienti: Non sono richiesti requisiti particolari.
- Indicazioni sullo stoccaggio misto: Non necessario.
- Ulteriori indicazioni relative alle condizioni di immagazzinamento: Mantenere i recipienti ermeticamente chiusi.
- 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:

<table>
<thead>
<tr>
<th>67-64-1 acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA Valore a breve termine: 1781 mg/m³, (750) ppm</td>
</tr>
<tr>
<td>Valore a lungo termine: 1187 mg/m³, (500) ppm</td>
</tr>
<tr>
<td>A4, IBE</td>
</tr>
<tr>
<td>VL Valore a lungo termine: 1210 mg/m³, 500 ppm</td>
</tr>
</tbody>
</table>

(continua a pagina 4)
Denominazione commerciale: PICRIC ACID, 0.1% IN ACETONE

88-89-1 2,4,6-trinitrofenolo
TWA Valore a lungo termine: 0.1 mg/m³

- Componenti con valori limite biologici:
  67-64-1 acetone
  IBE 50 mg/l
  Campioni: urine
  Momento del prelievo: a fine turno
  Indicatore biologico: acetone

- 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.
    Evitare il contatto con gli occhi.
    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:
    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.
  - 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:
      Forma: Liquido
      Colore: Giallo chiaro
    - Odore:
      Simile all’acetone
    - Soglia olfattiva:
      Non definito.
  - valori di pH:
    Non definito.

(continua a pagina 5)
### Denominazione commerciale: PICRIC ACID, 0.1% IN ACETONE

| · **Cambiamento di stato** | · **Punto di fusione/punto di congelamento:** -94,7 °C |
| · **Punto di ebollizione iniziale e intervallo di ebollizione:** 56,5 °C |
| · **Punto di infiammabilità:** -20 °C |
| · **Infiammabilità (solidi, gas):** Non applicabile. |
| · **Temperatura di accensione:** 465 °C |
| · **Temperatura di decomposizione:** Non definito. |
| · **Temperatura di autoaccensione:** Non definito. |
| · **Proprietà esplosive:** Prodotto non esplosivo. |
| · **Limiti di infiammabilità:** |
| Inferiore: 2,6 Vol % |
| Superiore: 13 Vol % |
| · **Tensione di vapore a 20 °C:** 233 hPa |
| · **Densità a 20 °C:** 0,79 g/cm³ |
| · **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 a 20 °C: 32 mPas |
| Cinematica: Non definito. |
| · **Tenore del solvente:** |
| Solventi organici: 99,9 % |
| VOC (CE) 99,90 % |
| · **Contenuto solido:** 0,1 % |
| · **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:

<table>
<thead>
<tr>
<th>67-64-1 acetone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Orale LD50</td>
<td>5.800 mg/kg (rat)</td>
</tr>
<tr>
<td>Cutaneo LD50</td>
<td>20.000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

- Irritabilità primaria:
  - Corrosione/irritazione cutanea Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
  - Lesioni oculari gravi/irritazioni oculari gravi
    Provoca grave irritazione oculare.
  - 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 sonnolenza o vertigini.
  - 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.
- Ulteriori indicazioni in materia ambientale:
- Ulteriori indicazioni:
  - Pericolosità per le acque classe 1 (D) (Classif. secondo le liste): poco pericoloso
    Non immettere nelle acque freatiche, nei corsi d’acqua o nelle fognature non diluito o in grandi quantità.
- 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

<table>
<thead>
<tr>
<th>· <strong>14.1 Numero ONU</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· ADR, IMDG, IATA</td>
</tr>
<tr>
<td><strong>UN1090</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>14.2 Nome di spedizione dell'ONU</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· ADR</td>
</tr>
<tr>
<td>· IMDG, IATA</td>
</tr>
<tr>
<td><strong>1090 ACETONE</strong></td>
</tr>
<tr>
<td><strong>ACETONE</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>14.3 Classi di pericolo connesso al trasporto</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· ADR, IMDG, IATA</td>
</tr>
<tr>
<td>· <strong>Classe</strong></td>
</tr>
<tr>
<td>· <strong>3 Liquidi infiammabili</strong></td>
</tr>
<tr>
<td>· <strong>Etichetta</strong></td>
</tr>
<tr>
<td>· <strong>3</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>14.4 Gruppo di imballaggio</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· ADR, IMDG, IATA</td>
</tr>
<tr>
<td>· <strong>II</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>14.5 Pericoli per l'ambiente:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>Non applicabile.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>14.6 Precauzioni speciali per gli utilizzatori</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>Attenzione: Liquidi infiammabili</strong></td>
</tr>
<tr>
<td>· <strong>Numeri Kemler:</strong></td>
</tr>
<tr>
<td>· <strong>33</strong></td>
</tr>
<tr>
<td>· <strong>Numero EMS:</strong></td>
</tr>
<tr>
<td>· <strong>F-E,S-D</strong></td>
</tr>
<tr>
<td>· <strong>Stowage Category</strong></td>
</tr>
<tr>
<td>· <strong>E</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>Non applicabile.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>Trasporto/ulteriori indicazioni:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>ADR</strong></td>
</tr>
<tr>
<td>· <strong>Quantità limitate (LQ)</strong></td>
</tr>
<tr>
<td>· <strong>1L</strong></td>
</tr>
<tr>
<td>· <strong>Codice: E2</strong></td>
</tr>
<tr>
<td>· <strong>Quantità massima netta per imballaggio interno: 30 ml</strong></td>
</tr>
<tr>
<td>· <strong>Quantità massima netta per imballaggio esterno: 500 ml</strong></td>
</tr>
<tr>
<td>· <strong>Categoria di trasporto</strong></td>
</tr>
<tr>
<td>· <strong>D/E</strong></td>
</tr>
<tr>
<td>· <strong>IMDG</strong></td>
</tr>
<tr>
<td>· <strong>Limited quantities (LQ)</strong></td>
</tr>
<tr>
<td>· <strong>1L</strong></td>
</tr>
<tr>
<td>· <strong>Code: E2</strong></td>
</tr>
<tr>
<td>· <strong>Maximum net quantity per inner packaging: 30 ml</strong></td>
</tr>
<tr>
<td>· <strong>Maximum net quantity per outer packaging: 500 ml</strong></td>
</tr>
<tr>
<td>· <strong>Excepted quantities (EQ)</strong></td>
</tr>
<tr>
<td>· <strong>Code: E2</strong></td>
</tr>
<tr>
<td>· <strong>Maximum net quantity for inner packaging</strong>: 30 ml</td>
</tr>
<tr>
<td>· <strong>Maximum net quantity for outer packaging</strong>: 500 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>· <strong>UN &quot;Model Regulation&quot;:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>UN 1090 ACETONE, 3, II</strong></td>
</tr>
</tbody>
</table>

### SEZIONE 15: Informazioni sulla regolamentazione

<table>
<thead>
<tr>
<th>· <strong>15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>Direttiva 2012/18/UE</strong></td>
</tr>
<tr>
<td>· <strong>Sostanze pericolose specificate - ALLEGATO I</strong> La sostanza non è contenuta</td>
</tr>
<tr>
<td>· <strong>REGOLAMENTO (CE) n. 1907/2006 ALLEGATO XVII</strong> Restrizioni: 3</td>
</tr>
</tbody>
</table>

(continua a pagina 8)
Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Denominazione commerciale: PICRIC ACID, 0.1% IN ACETONE

- Disposizioni nazionali:
- Istruzione tecnica aria:

<table>
<thead>
<tr>
<th>Classe</th>
<th>quota in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
<td>99,9</td>
</tr>
</tbody>
</table>

- 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.

- Frasi rilevanti
  H201 Esplosivo; pericolo di esplosione di massa.
  H301 Tossico se ingerito.
  H311 Tossico per contatto con la pelle.
  H331 Tossico se inalato.

- 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
  vPvB: very Persistent and very Bioaccumulative
  Expl. 1.1: Esplosivi – Divisione 1.1
  Acute Tox. 3: Tossicità acuta – Categoria 3
  Eye Irrit. 2: Gravi lesioni oculari/irritazione oculare – Categoria 2
  STOT SE 3: Tossicità specifica per organi bersaglio (esposizione singola) – Categoria 3
1 화학제품과 회사에 관한 정보

- 제품 식별자
  - 제품명: PICRIC ACID, 0.1% IN ACETONE
  - 상품번호: 19553
  - CAS-번호: 67-64-1
  - EC-번호: 200-662-2
  - 색인 번호: 606-001-00-8
- 재활용 관련 하위용도 및 사용금지용도
- 안전데이터표(Safety Data Sheet) 내 공급업체 관련 상세 정보
- 제조자/수입자/유통업자 정보:
  Electron Microscopy Sciences
  1560 Industry Road
  USA-Hatfield, PA 19440
  Tel: 215-412-8400 Fax: 215-412-8450
  email: sgkcck@aol.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 획득 가능: Product safety department
- 비상연락 전화번호: ChemTrec 1-800-424-9300 Contract CCN7661
  1-703-527-3887

2 유해성·위험성

- 순물질 또는 혼합물의 분류

⚠️

심한 눈 손상성/눈 자극성 - 구분 2 H319 눈에 심한 자극을 일으킴
특정효작장기 독성 - 1회 노출 - 구분 3 H336 홍역 또는 혼란성에 일으킬 수 있음

라벨포기 요소
GHS 라벨 요소
본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
(2 복에계속)
제품명: PICRIC ACID, 0.1% IN ACETONE

- 그림문자

GHS07

- 신호어 경고
- 상표상의명확히위험성표시사항
- 피크릭산
- 유해,위험분류
  눈에 심한 자극을 일으킴
  콜럼 또는 흉기증을 일으킬 수 있음
- 예방조치
  (본질: 홍과미스트+공급스프레이)의 흡입을 피하오.
  눈 보호대/안면 보호구 착용.
  흡입하였을 경우, 폐기물 처리 및 제공할 주의사항.
- 잔류성
  · 장갑 장착가 있는 저장장소에 저장하시오.
  · 현지/지역/국가/국제 규정에 따라서 내용물/용기 노출
  · 기타 유해성
    - PBT(전투성, 생물농축성, 특성 물질) 및 vPvB(고 전투성, 고 생물농축성 물질) 평가 결과
    - PBT(전투성, 생물농축성, 특성 물질): 해당사항 없음.
    - vPvB(고 전투성, 고 생물농축성 물질): 해당사항 없음.

3 구성성분의 명칭 및 함유량

- 화학적 특성: 화학물질
- CAS-번호표시
  67-64-1 Acetone, Reagent Grade
- 식별 번호
- EC 번호: 200-662-2
- 색인 번호: 606-001-00-8

4 응급조치 요령

- 응급조치요령 내용
- 일반적 정보:
  중독 증상은 몇 시간이 지난 뒤에 발생할 수 있다. 따라서 사고가 발생한 후에 적어도 48시간 간동안은 의료진의 관찰을 받아야 한다.
- 흡입했을 때:
  · 신선한 공기를 섞으십시오. 필요할 경우에는 산소 호흡기의 도움을 받습니다. 환자를 따뜻하게 하고, 증상이 지속될 경우에는 의료진과 연락을 받아야 한다.
  · 피부에 접촉했을 때: 일반적으로 이 제품은 피부에 자극적이지 않으나, 환자에 의식을 잃었을 경우에는 알아야 한다.
  · 눈에 들어갔을 때: 환자는 눈을 둔갑도록 약을 심어내고 나서, 증상이 지속될 경우에는 의사와 상담한다.
- 기타 의사의 주의사항:
  · 가장 중요한 급한 안전 및 영향 발생시작일 정보가 존재하지 않습니다.
제품명: PICRIC ACID, 0.1% IN ACETONE

5 폭발-화재시 대처방법

소화제
직접한 소화제: 주 변 환경에 맞는 화 재 진화방법을 사용한다.
본 화학물질이나 혼합물에서 발생하는 특별 유해성 추가적인 정보가 존재하지 않습니다.
소방관에 대한 권고사항: 화재 진압 시 작용할 보호구 및 예방조치: 호흡보호장비설치.

6 누출 사고 시 대처방법

개인적 예방조치: 보호장비 및 응급처치 절차 필요없음.
취급 및 저장방법: 안전 취급을 위한 예방조치
작업장에서는 통풍이 잘되고/습기제거가 잘되게 주의한다.
화재 및 폭발 사고 예방대책에 관한 정보: 특별한 조치가 필요없음.
혼합위험성 등 안전 저장 조건: 보관
안전한 저장 방법: 특별한 요구사항이 없음.
물질의 노출기준, 생물학적 노출기준 등:
67-64-1 Acetone, Reagent Grade
TLV (KR) 단기간의값: 750 ppm
장기간의값: 500 ppm
IOELV (EU) 장기간의값: 1210 mg/m³, 500 ppm
PEL (US) 장기간의값: 2400 mg/m³, 1000 ppm

7 취급 및 저장방법

취급:
환경 관련 예방조치: 하수도망/해수면위의물/지하수로도달하지 않게 한다.

8 노출방지 및 개인보호구

취단시설 디자인이에 대한 추가정보: 이 상의 자료는 없음. 향목7을 참고하시오.
통제 변수: 화학물질의 노출기준, 생물학적 노출기준 등:

<table>
<thead>
<tr>
<th></th>
<th>TLV (KR)</th>
<th>IOELV (EU)</th>
<th>PEL (US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>단기간의값</td>
<td>750 ppm</td>
<td>1210 mg/m³</td>
<td>2400 mg/m³</td>
</tr>
<tr>
<td>장기간의값</td>
<td>500 ppm</td>
<td>500 ppm</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

(2 쪽부터계속)
제품명: PICRIC ACID, 0.1% IN ACETONE

| REL (US) | 장기간의값: 590 mg/m³, 250 ppm |
| TLV (US) | 단기간의값: 1187 mg/m³, 500 ppm |
|           | 장기간의값: 594 mg/m³, 250 ppm |
| BEI       |

- 후가정보: 제조할 당시에 유효한 물질을 기초로 사용했다.
- 보호물질
  - 개인보호구
    - 일반적보호조치 및 위생조치
      - 물리화학적 특성에 대한 정보
        - 기본물리 및 화학적 특성에 대한 정보
          - 일반정보
            - 물리적 상태: 액체
            - 색: 연한 노랑
            - 녹는점/어는점: -94.7 °C
            - 초기 끓는점과 끓는점 범위: 56.5 °C
            - pH: 알맞지 않아.
            - 인화점: -20 °C
            - 인화성 (고체, 기체): 해당사항 없음.
            - 점화온도: 465 °C
            - 분해 온도: 알맞지 않아.
          - 외형
            - 물리적 상태: 액체
            - 색: 연한 노랑
            - 녹는점/어는점: -94.7 °C
            - 초기 끓는점과 끓는점 범위: 56.5 °C
            - pH: 알맞지 않아.
            - 인화점: -20 °C
            - 인화성 (고체, 기체): 해당사항 없음.
            - 점화온도: 465 °C
            - 분해 온도: 알맞지 않아.

품질보장자료: 물질안전보건자료
제품명: PICRIC ACID, 0.1% IN ACETONE

<table>
<thead>
<tr>
<th>항목</th>
<th>valeur</th>
</tr>
</thead>
<tbody>
<tr>
<td>자기점화</td>
<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>특별위험</td>
<td>이제품은 폭발위험성이 없습니다.</td>
</tr>
<tr>
<td>인화 또는 특별법위의 상한/하한</td>
<td></td>
</tr>
<tr>
<td>아래로</td>
<td>2.6 Vol %</td>
</tr>
<tr>
<td>위로</td>
<td>13 Vol %</td>
</tr>
<tr>
<td>증기압 의정우 20 °C</td>
<td>233 hPa</td>
</tr>
<tr>
<td>밀도 의정우 20 °C</td>
<td>0.79 g/cm³</td>
</tr>
<tr>
<td>비중</td>
<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>증기밀도</td>
<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>증발 속도</td>
<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>용해도: 물</td>
<td>각각의경우에 따라서는 거의혼합할 수 없는</td>
</tr>
<tr>
<td>n 옥탄올/물 분배계수</td>
<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>점도:</td>
<td></td>
</tr>
<tr>
<td>역학성 의정우 20 °C</td>
<td>32 mPas</td>
</tr>
<tr>
<td>동정성</td>
<td>알맞지 않습니다.</td>
</tr>
<tr>
<td>용매내용물 유기용매</td>
<td>99.9 %</td>
</tr>
<tr>
<td>유기용매</td>
<td>99.90 %</td>
</tr>
<tr>
<td>고체의 함량</td>
<td>0.1 %</td>
</tr>
<tr>
<td>기타 정보</td>
<td>추가적인 정보가 존재하지 않습니다.</td>
</tr>
</tbody>
</table>

10 안정성 및 반응성

반응성 추가적인 정보가 존재하지 않습니다.
화학적 안정성
화학적 안정성 및 유해 반응의 가능성 / 피해가 할 조건: 규정에 따라 사용할경우해체는없다
유해반응 가능성 위험한반응으로는알려지지않았다.
피해가 할 조건 추가적인 정보가 존재하지 않습니다.
혼합 금지물질: 추가적인 정보가 존재하지 않습니다.
유해반응물질: 위험성있는분해물들은알려지지않았다.

11 독성에 관한 정보

LD/LC50-수치에 따른 분류:
67-64-1 Acetone, Reagent Grade
<table>
<thead>
<tr>
<th>구강의 피부의</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50</td>
</tr>
<tr>
<td>LD50</td>
</tr>
</tbody>
</table>

일차적 자극 효과:
피부 부식성 또는 자극성: 무자극
실환 눈 손상 또는 자극성: 자극

(6쪽에계속)
제품명: PICRIC ACID, 0.1% IN ACETONE

감각화: 민감한 영향이 없는 것으로 알려져있다.

12 환경에 미치는 영향

· 독성
  · 수생독성: 추가적인 정보가 존재하지 않습니다.
  · 생물농축: 추가적인 정보가 존재하지 않습니다.
  · 토양내 이동성: 추가적인 정보가 존재하지 않습니다.

· 환경
  · 환경적 유해물질: 해당사항 없음.
  · 이용자 특별 예방조치 위험 코드: 경고: 발화성용액 33

13 폐기시 주의사항

· 폐기물 처리 방법
  · 권고: 생활쓰레기와 함께 처리되어서는 안된다. 하수도망으로 유입시키는 안된다.

· 비위생적 포장
  · 권고: 당국의 지침에 입각한 쓰레기 처리.

14 운송에 필요한 정보

<table>
<thead>
<tr>
<th>유엔 번호</th>
<th>ADR, IMDG, IATA</th>
<th>UN1090</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN</td>
<td>ADR</td>
<td>IMDG, IATA</td>
</tr>
<tr>
<td>교통 위험 클래스</td>
<td>ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>등급</td>
<td>위험물 라벨</td>
<td>3 발화성용액 3</td>
</tr>
<tr>
<td>용기등급</td>
<td>ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>환경적 유해물질:</td>
<td>해당사항 없음</td>
<td></td>
</tr>
</tbody>
</table>

(7쪽에계속)
제품명: PICRIC ACID, 0.1% IN ACETONE

<table>
<thead>
<tr>
<th>EMS-번호:</th>
<th>F-E-S-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stowage Category:</td>
<td>E</td>
</tr>
<tr>
<td>MARPOL 73/78 (선박으로부터의 해양오염방지협약) 부속서 2 및 IBC Code (국제선적화물코드)에 따른 벌크 (bulk) 운송</td>
<td>해당사항 없음</td>
</tr>
</tbody>
</table>

운송/추가 정보:

- ADR
  - 환경 수량 (LQ)
  - Excepted quantities (EQ) 1L
  - Code: E2
  - Maximum net quantity per inner packaging: 30 ml
  - Maximum net quantity per outer packaging: 500 ml

- 운송 구분
  - 터널 제한 코드 D/E

- 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 "모범 규제": UN 1090 ACETONE, 3, II

15 법적 규제현황

- 산업안전보건법에 의한 규제:
  - 제조 등 급지물질: 성분이 포함되어있지 않다
  - 허가대상물질: 성분이 포함되어있지 않다
  - 관리대상유해물질: 67-64-1 Acetone, Reagent Grade
    - 작업환경측정 대상 유해인자: IA55
    - 특수건강진단 대상 유해인자: IA55
  - 해당 순서물질 또는 혼합물에 대한 안전 보건 및 환경 규제/법률
    - Korean Existing Chemical Inventory
      - 67-64-1 Acetone, Reagent Grade KE-29367
      - 88-89-1 피크릭 산 KE-34715
  - 화학물질관리법
    - 사고대비물질: 성분이 포함되어있지 않다
    - 급지물질: 성분이 포함되어있지 않다
    - 재활물질: 성분이 포함되어있지 않다
제품명: PICRIC ACID, 0.1% IN ACETONE

유독물질
88-89-1 피크릭 산

험가물질
88-89-1 피크릭 산

위험물안전관리법 (위험물 및 지정수량) 제 4: 400 리터

GHS 라벨 요소
본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

신호어 경고

상표상제명학 혜위험성이표시된성분: 피크릭 산
유해 위험 문구
눈에 심한 자극을 일으킨다.
흡기 또는 현기증을 일으킬 수 있음
예방조치 문구
(분진·즙·가스·미스트·증기·스프레이)의 흡입을 피하시오.
눈 또는 보호장치가 있는 점검장소에 저장하시오.

화학물질 안전성 평가: 화학물질 안전성 평가가 수행되지 않음

16) 백의 참고사항
이보코는우리지식에대한오늘날의상태에대하여평가하고있다. 하지만이보고서는생산특성에관한보증은
기술하지 않았으며계약적인법률관계에기반을두고있지도않다.

최초 작성일자: 2019.08.15
개정 횟수 및 최종 개정일자: 1 / 2019.08.15
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
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
SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1 Identificador del producto

- Nombre comercial: PICRIC ACID, 0.1% IN ACETONE
- Número del artículo: 19553
- Número CAS: 67-64-1
- Número CE: 200-662-2
- Número de clasificación: 606-001-00-8

1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

No existen más datos relevantes disponibles.

1.3 Datos del proveedor de la ficha de seguridad

- Fabricante/distribuidor:
  Electron Microscopy Sciences
  1560 Industry Road
  USA-Hatfield, PA 19440
  Tel: 215-412-8400  Fax: 215-412-8450
  email: sgkcck@aol.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

- GHS07

Eye Irrit. 2  H319  Provoca irritación ocular grave.
STOT SE 3  H336  Puede provocar somnolencia o vértigo.

2.2 Elementos de la etiqueta

- Etiquetado con arreglo al Reglamento (CE) n° 1272/2008
La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.

- Pictogramas de peligro

- GHS07

( se continúa en página 2 )
Nombre comercial: PICRIC ACID, 0.1% IN ACETONE

- Palabra de advertencia Atención
- Componentes peligrosos a indicar en el etiquetaje:
  propanona
- Indicaciones de peligro
  H319 Provoca irritación ocular grave.
  H336 Puede provocar somnolencia o vértigo.
- Consejos de prudencia
  P261 Evitar respirar el polvo/el humo/el gas/las nieblas/las vapor/los vapores/el aerosol.
  P280 Llevar gafas de protección / máscara de protección.
  P304+P340 EN CASO DE INHALACIÓN: Transportar a la persona al aire libre y mantenerla en una
  posición que le facilite la respiración.
  P305+P351+P338 EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante
  varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando.
  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

- 3.1 Caracterización química: Sustancias
  - Denominación Nº CAS
    67-64-1 propanona
  - Número(s) de identificación
    - Número CE: 200-662-2
    - Número de clasificación: 606-001-00-8

- Componentes peligrosos:
  - CAS: 88-89-1
  - EINECS: 201-865-9
  - 2,4,6-trinitrofenol
  - Exp: 1.1, H201; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331
  - ≤2.5%

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: Por regla general, el producto no irrita la piel.
  - En caso de con los ojos:
    Limpie los ojos abiertos durante varios minutos con agua corriente. En caso de trastornos persistentes consultar
    un médico.
  - 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.
Nombre comercial: PICRIC ACID, 0.1% IN ACETONE

· 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: Combatir los incendios con medidas adaptados al ambiente circundante.
· 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 No es necesario.
· 6.2 Precauciones relativas al medio ambiente:
   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 item 13.
   Asegurar suficiente ventilación.
· 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 deschar 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.
· Prevención de incendios y explosiones: No se requieren medidas especiales.
· 7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades
   · Almacenamiento:
     · Exigencias con respecto al almacén y los recipientes: No se requieren medidas especiales.
     · Normas en caso de un almacenamiento conjunto: No es necesario.
     · Indicaciones adicionales sobre las condiciones de almacenamiento:
       Mantener el recipiente cerrado herméticamente.
· 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:
     67-64-1 propanona
     LEP: Valor de larga duración: 1210 mg/m³, 500 ppm
     VLB, VLI

( se continúa en la página 2 )
**Ficha de datos de seguridad**

**según 1907/2006/CE, Artículo 31**

---

**Nombre comercial:** PICRIC ACID, 0.1% IN ACETONE

---

<table>
<thead>
<tr>
<th>88-89-1 2,4,6-trinitrofenol</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LEP</strong> Valor de larga duración: 0,1 mg/m³</td>
</tr>
<tr>
<td><strong>VLI</strong></td>
</tr>
</tbody>
</table>

- Componentes con valores límite biológicos:

  - **67-64-1 propanona**
    - **VLB** 50 mg/l
      - Muestra: orina
      - Momento de Muestreo: Final de la jornada laboral
      - Indicador Biológico: Acetona

- 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 los ojos.
      - Evitar el contacto con los ojos y la piel.
    - **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:**
      - El material del guante deberá ser impermeable y resistente al producto / substancia / preparado.
      - Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de substancias 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.
    - **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:** Amarillo claro
  - **Olor:** Similar al de la acetona
  - **Umbral olfativo:** No determinado.
  - **valor pH:** No determinado.
Ficha de datos de seguridad  
según 1907/2006/CE, Artículo 31

**Nombre comercial:** PICRIC ACID, 0.1% IN ACETONE  

<table>
<thead>
<tr>
<th>Propiedad</th>
<th>Valor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Punto de fusión/punto de congelación:</td>
<td>-94.7 °C</td>
</tr>
<tr>
<td>Punto inicial de ebullición e intervalo de ebullición:</td>
<td>56.5 °C</td>
</tr>
<tr>
<td>Punto de inflamación:</td>
<td>-20 °C</td>
</tr>
<tr>
<td>Inflamabilidad (sólido, gas):</td>
<td>No aplicable.</td>
</tr>
<tr>
<td>Temperatura de ignición:</td>
<td>465 °C</td>
</tr>
<tr>
<td>Temperatura de descomposición:</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Temperatura de auto-inflamación:</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Propiedades explosivas:</td>
<td>El producto no es explosivo.</td>
</tr>
<tr>
<td>Límites de explosión:</td>
<td></td>
</tr>
<tr>
<td>Inferior:</td>
<td>2.6 Vol %</td>
</tr>
<tr>
<td>Superior:</td>
<td>13 Vol %</td>
</tr>
<tr>
<td>Presión de vapor a 20 °C:</td>
<td>233 hPa</td>
</tr>
<tr>
<td>Densidad a 20 °C:</td>
<td>0.79 g/cm³</td>
</tr>
<tr>
<td>Densidad relativa</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Densidad de vapor</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Tasa de evaporación</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Solubilidad en / miscibilidad con agua:</td>
<td>Poco o no mezclable.</td>
</tr>
<tr>
<td>Coeficiente de reparto: n-octanol/agua:</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Viscosidad:</td>
<td></td>
</tr>
<tr>
<td>Dinámica a 20 °C:</td>
<td>32 mPas</td>
</tr>
<tr>
<td>Cinemática:</td>
<td>No determinado.</td>
</tr>
<tr>
<td>Concentración del disolvente:</td>
<td></td>
</tr>
<tr>
<td>Disolventes orgánicos:</td>
<td>99.9 %</td>
</tr>
<tr>
<td>VOC (CE)</td>
<td>99.90 %</td>
</tr>
<tr>
<td>Contenido de cuerpos sólidos:</td>
<td>0.1 %</td>
</tr>
<tr>
<td>9.2 Otros datos</td>
<td>No existen más datos relevantes disponibles.</td>
</tr>
</tbody>
</table>

**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.
Ficha de datos de seguridad
según 1907/2006/CE, Artículo 31

fecha de impresión 15.08.2019
Revisión: 15.08.2019

Nombre comercial: PICRIC ACID, 0.1% IN ACETONE

| · Valores LD/LC50 (dosis letal /dosis letal = 50%) relevantes para la clasificación: |
| 67-64-1 propanona |
| Oral | LD50 | 5.800 mg/kg (rat) |
| Dermal | LD50 | 20.000 mg/kg (rabbit) |

· 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
  Provoca irritación ocular grave.
· 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 somnolencia o vértigo.
· 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.
· Indicaciones medioambientales adicionales:
  · Indicaciones generales:
    Nivel de riesgo para el agua 1 (clasificación de listas): escasamente peligroso para el agua
    En estado no diluido o no neutralizado, no dejar que se infiltrre en aguas subterráneas, aguas superficiales o en alcantarillados.
· 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

<table>
<thead>
<tr>
<th>14.1 Número ONU</th>
<th>UN1090</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 Designación oficial de transporte de las Naciones Unidas</td>
<td></td>
</tr>
<tr>
<td>ADR</td>
<td>1090 ACETONA</td>
</tr>
<tr>
<td>IMDG, IATA</td>
<td>ACETONE</td>
</tr>
<tr>
<td>14.3 Clase(s) de peligro para el transporte</td>
<td></td>
</tr>
<tr>
<td>ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>Clase</td>
<td>3 Líquidos inflamables</td>
</tr>
<tr>
<td>Etiqueta</td>
<td>3</td>
</tr>
<tr>
<td>14.4 Grupo de embalaje</td>
<td>II</td>
</tr>
<tr>
<td>ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>14.5 Peligros para el medio ambiente:</td>
<td>No aplicable.</td>
</tr>
<tr>
<td>14.6 Precauciones particulares para los usuarios</td>
<td>Atención: Líquidos inflamables</td>
</tr>
<tr>
<td>Número Kemler:</td>
<td>33</td>
</tr>
<tr>
<td>Número EMS:</td>
<td>F-E,S-D</td>
</tr>
<tr>
<td>Stowage Category</td>
<td>E</td>
</tr>
<tr>
<td>14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC</td>
<td>No aplicable.</td>
</tr>
<tr>
<td>Transporte/datos adicionales:</td>
<td></td>
</tr>
<tr>
<td>ADR</td>
<td></td>
</tr>
<tr>
<td>CANTIDADES LIMITADAS (LQ)</td>
<td>1L</td>
</tr>
<tr>
<td>CANTIDADES EXCEPTUADAS (EQ)</td>
<td>Código: E2</td>
</tr>
<tr>
<td></td>
<td>Cantidad neta máxima por envase interior: 30 ml</td>
</tr>
<tr>
<td></td>
<td>Cantidad neta máxima por embalaje exterior: 500 ml</td>
</tr>
<tr>
<td>CATEGORÍA DE TRANSPORTE</td>
<td>2</td>
</tr>
<tr>
<td>CÓDIGO DE RESTRICCIÓN DEL TÚNEL</td>
<td>D/E</td>
</tr>
<tr>
<td>IMDG</td>
<td></td>
</tr>
<tr>
<td>CANTIDADES LIMITADAS (LQ)</td>
<td>1L</td>
</tr>
<tr>
<td>CANTIDADES EXCEPTUADAS (EQ)</td>
<td>Código: E2</td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td></td>
<td>Maximum net quantity per outer packaging: 500 ml</td>
</tr>
<tr>
<td>&quot;Reglamentación Modelo&quot; de la UNECE:</td>
<td>UN 1090 ACETONA, 3, II</td>
</tr>
</tbody>
</table>

### 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 | No contiene la sustancia. |
| REGLAMENTO (CE) n° 1907/2006 ANEXO XVII | Restricciones: 3 |
**Ficha de datos de seguridad**  
según 1907/2006/CE, Artículo 31

**Nombre comercial:** PICRIC ACID, 0.1% IN ACETONE

( se continua en página 7 )

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### 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**
  - H201 Explosivo; peligro de explosión en masa.
  - H301 Tóxico en caso de ingestión.
  - H311 Tóxico en contacto con la piel.
  - H331 Tóxico en caso de inhalación.

- **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
  - vPvB: very Persistent and very Bioaccumulative
  - Expl. 1.1: Explosivos – División 1.1
  - Acute Tox. 3: Toxicidad aguda – Categoría 3
  - Eye Irrit. 2: Lesiones oculares graves o irritación ocular – Categoría 2
  - STOT SE 3: Toxicidad específica en determinados órganos (exposición única) – Categoría 3