1 Identification

- **Trade name**: 39804 Clear Chip Guard
- **Article number**: 39804
- **Application of the substance / the mixture**: Coating

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - GHS02 Flame
  - Flam. Liq. 2 H225 Highly flammable liquid and vapor.
- GHS08 Health hazard
  - Repr. 2 H361 Suspected of damaging fertility or the unborn child.
  - STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- GHS07
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2A H319 Causes serious eye irritation.
  - STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**
  - **GHS label elements**: The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    - GHS02
    - GHS07
    - GHS08

- **Signal word**: Danger

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

(Contd. on page 2)
Trade name: 39804 Clear Chip Guard

acetone

- **Hazard statements**
  - H225 Highly flammable liquid and vapor.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H361 Suspected of damaging fertility or the unborn child.
  - H336 May cause drowsiness or dizziness.
  - H373 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P240 Ground/bond container and receiving equipment.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - 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.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P312 Call a poison center/doctor if you feel unwell.
  - P321 Specific treatment (see on this label).
  - P314 Get medical advice/attention if you feel unwell.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P332+P313 If skin irritation occurs: Get medical advice/attention.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 3
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 3
    - Reactivity = 0
Trade name: 39804 Clear Chip Guard

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

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description:
  Mixture: consisting of the following components.
  Weight percentages

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td>40-60%</td>
</tr>
<tr>
<td>78-93-3 butanone</td>
<td>10-13%</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>≥7-&lt;10%</td>
</tr>
<tr>
<td>2807-30-9 2-(propyloxy)ethanol</td>
<td>5-7%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- Description of first aid measures
  - After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact:
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing: If symptoms persist consult doctor.
  - Information for doctor:
  - Most important symptoms and effects, both acute and delayed No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - For safety reasons unsuitable extinguishing agents: Water with full jet
  - Special hazards arising from the substance or mixture No further relevant information available.
  - Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
  - 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).

(Contd. on page 4)
Trade name: 39804 Clear Chip Guard

Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

  - **PAC-1:**
    - 108-88-3 toluene 67 ppm
    - 78-93-3 butanone 200 ppm
    - 67-64-1 acetone 200 ppm
    - 2807-30-9 2-(propyloxy)ethanol 2.2 ppm

  - **PAC-2:**
    - 108-88-3 toluene 560 ppm
    - 78-93-3 butanone 2700* ppm
    - 67-64-1 acetone 3200* ppm
    - 2807-30-9 2-(propyloxy)ethanol 24 ppm

  - **PAC-3:**
    - 108-88-3 toluene 3700* ppm
    - 78-93-3 butanone 4000* ppm
    - 67-64-1 acetone 5700* ppm
    - 2807-30-9 2-(propyloxy)ethanol 140 ppm

- **7 Handling and storage**

  - **Handling:**
    - **Precautions for safe handling** No special measures required.
    - **Information about protection against explosions and fires:**
      - Keep ignition sources away.
      - Do not smoke.
      - Protect against electrostatic charges.

  - **Conditions for safe storage, including any incompatibilities**

  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** Store in a cool location.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**
      - Keep receptacle tightly sealed.
      - Store in cool, dry conditions in well sealed receptacles.
    - **Specific end use(s)** No further relevant information available.

- **8 Exposure controls/personal protection**

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

  - **Control parameters**

  - **Components with limit values that require monitoring at the workplace:**
    - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
Trade name: 39804 Clear Chip Guard

At this time, the remaining constituent has no known exposure limits.

### 108-88-3 toluene

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
<td>Long-term value: 200 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ceiling limit value: 300; 500* ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REL</strong></td>
<td>Short-term value: 560 mg/m³, 150 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long-term value: 375 mg/m³, 100 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TLV</strong></td>
<td>Long-term value: 75 mg/m³, 20 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BEI</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### 78-93-3 butanone

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
<td>Long-term value: 590 mg/m³, 200 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REL</strong></td>
<td>Short-term value: 885 mg/m³, 300 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long-term value: 590 mg/m³, 200 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TLV</strong></td>
<td>Short-term value: 885 mg/m³, 300 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long-term value: 590 mg/m³, 200 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BEI</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 67-64-1 acetone

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REL</strong></td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TLV</strong></td>
<td>Long-term value: 1187 mg/m³, 500 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long-term value: 594 mg/m³, 250 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BEI</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### Ingredients with biological limit values:

#### 108-88-3 toluene

- **BEI** 0.02 mg/L
  - Medium: blood
  - Time: prior to last shift of workweek
  - Parameter: Toluene

- **BEI** 0.03 mg/L
  - Medium: urine
  - Time: end of shift
  - Parameter: Toluene

- **BEI** 0.3 mg/g creatinine
  - Medium: urine
  - Time: end of shift
  - Parameter: o-Cresol with hydrolysis (background)

#### 78-93-3 butanone

- **BEI** 2 mg/L
  - Medium: urine
  - Time: end of shift
  - Parameter: MEK

#### 67-64-1 acetone

- **BEI** 50 mg/L
  - Medium: urine
  - Time: end of shift
  - Parameter: Acetone (nonspecific)
Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

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

Protection of hands:
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

Protective gloves

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

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

Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

<table>
<thead>
<tr>
<th>9 Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information on basic physical and chemical properties</td>
</tr>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>Appearance:</td>
</tr>
<tr>
<td>Form:</td>
</tr>
<tr>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
</tr>
<tr>
<td>According to product specification</td>
</tr>
<tr>
<td>Odor:</td>
</tr>
<tr>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold:</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value:</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>Change in condition</td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
</tr>
<tr>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
</tr>
<tr>
<td>55 °C</td>
</tr>
</tbody>
</table>
Title: Trade name: 39804 Clear Chip Guard

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point</strong>:</td>
<td>-18 °C</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous)</strong>:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Ignition temperature</strong>:</td>
<td>230 °C</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong>:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Auto igniting</strong>:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion</strong>:</td>
<td>In use, may form flammable/explosive vapour-air mixture.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong>:</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>1.2 Vol %</td>
</tr>
<tr>
<td>Upper:</td>
<td>11.5 Vol %</td>
</tr>
<tr>
<td><strong>Vapor pressure at 20 °C</strong>:</td>
<td>105 hPa</td>
</tr>
<tr>
<td><strong>Density at 20 °C</strong>:</td>
<td>0.9 g/cm³</td>
</tr>
<tr>
<td><strong>Relative density</strong>:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapor density</strong>:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong>:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water</strong>:</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong>:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity</strong>:</td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solvent content</strong>:</td>
<td></td>
</tr>
<tr>
<td>Organic solvents:</td>
<td>77.2 %</td>
</tr>
<tr>
<td>VOC content:</td>
<td>67.63 %</td>
</tr>
<tr>
<td>683.0 g/l / 5.70 lb/gl</td>
<td></td>
</tr>
<tr>
<td><strong>Solids content</strong>:</td>
<td>22.8 %</td>
</tr>
<tr>
<td><strong>Other information</strong>:</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### 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:

<table>
<thead>
<tr>
<th>108-88-3 toluene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
<tr>
<td>Inhalative LC50/4 h</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Irritating effect.

- Sensitization: No sensitizing effects known.

- Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- Carcinogenic categories

<table>
<thead>
<tr>
<th>IARC (International Agency for Research on Cancer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

- NTP (National Toxicology Program)
  None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.

- Additional ecological information:
  - General notes:
    Water hazard class 2 (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Danger to drinking water if even small quantities leak into the ground.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

- Other adverse effects: No further relevant information available.
### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

---

### 14 Transport information

<table>
<thead>
<tr>
<th><strong>UN-Number</strong></th>
<th>UN1263</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DOT, ADR, IMDG, IATA</strong></td>
<td></td>
</tr>
</tbody>
</table>

- **UN proper shipping name**
  - **DOT**
  - **ADR** 1263 Paint, special provision 640D
  - **IMDG, IATA** PAINT

- **Transport hazard class(es)**
  - **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:**
  - **Marine pollutant:** No

- **Special precautions for user**
  - **Warning:** Flammable liquids
  - **EMS Number:** F-E,S-E
  - **Stowage Category** B

- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

- **Transport/Additional information:**
  - **DOT**
    - **Quantity limitations**
      - On passenger aircraft/rail: 5 L
      - On cargo aircraft only: 60 L

(Contd. on page 10)
Trade name: 39804 Clear Chip Guard

<table>
<thead>
<tr>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORM-D 49CFR 173-150,156,306</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code: E2</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging: 500 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code: E2</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging: 500 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN &quot;Model Regulation&quot;:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II</td>
</tr>
</tbody>
</table>

---

### 15 Regulatory information

<table>
<thead>
<tr>
<th>Safety, health and environmental regulations/legislation specific for the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sara</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 355 (extremely hazardous substances):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredient is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 313 (Specific toxic chemical listings):</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
</tr>
<tr>
<td>Acrylic Resin</td>
</tr>
<tr>
<td>78-93-3 butanone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TSCA (Toxic Substances Control Act):</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
</tr>
<tr>
<td>78-93-3 butanone</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
</tr>
<tr>
<td>2807-30-9 2-(propyloxy)ethanol</td>
</tr>
<tr>
<td>9004-36-8 Cellulose Acetate Butyrate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause cancer:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for females:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for males:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause developmental toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cancerogenity categories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EPA (Environmental Protection Agency)</strong></td>
</tr>
<tr>
<td>108-88-3 toluene</td>
</tr>
<tr>
<td>78-93-3 butanone</td>
</tr>
<tr>
<td>67-64-1 acetone</td>
</tr>
</tbody>
</table>
Trade name: 39804 Clear Chip Guard

- **TLV (Threshold Limit Value established by ACGIH)**
  - 108-88-3 toluene
  - 67-64-1 acetone

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
  - GHS02
  - GHS07
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - toluene
  - butanone
  - acetone

- **Hazard statements**
  - H225 Highly flammable liquid and vapor.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H361 Suspected of damaging fertility or the unborn child.
  - H336 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - P240 Ground/bond container and receiving equipment.
  - P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
  - P264 Wash thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - 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.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P312 Call a poison center/doctor if you feel unwell.
  - P321 Specific treatment (see on this label).
  - P314 Get medical advice/attention if you feel unwell.
  - P362+P364 Take off contaminated clothing and wash it before reuse.
  - P332+P331 If skin irritation occurs: Get medical advice/attention.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
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(Contd. of page 11)

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 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.

- Department issuing SDS: Environment protection department.
- Contact: Rita Joiner (rjoiner@semproducts.com)
- Date of preparation / last revision 03/14/2018 / 6
- Abbreviations and acronyms:
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organisation
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - 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
  - REL: Recommended Exposure Limit
  - BEI: Biological Exposure Limit
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  - Repr. 2: Reproductive toxicity – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- * Data compared to the previous version altered.