1 Identification of the substance/mixture and of the company

· Product identifier
· Trade name: SU-8 2000 Series Resists
· Product number:
  Y111004, Y111007, Y111014, Y111022, Y111029, Y111045, Y111053, Y111058, Y111064, Y111069, Y111070,
  Y111072, Y111074, Y111075, Y111077
· Application of the substance / the mixture Photoresist
· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  MicroChem Corp.
  200 Flanders Road
  Westborough, MA 01581 USA
· Information department:
  Product Safety
  Email: productsafety@microchem.com
· Emergency telephone number:
  MicroChem Corp : 617-965-5511
  Chemtrec USA Emergency : 800-424-9300
  Chemtrec International Emergency : 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture
  GHS02 Flame
  Flam. Liq. 3
  H226 Flammable liquid and vapor.
  GHS09 Environment
  Aquatic Chronic 2
  H411 Toxic to aquatic life with long lasting effects.
  GHS07
  Acute Tox. 4
  H302 Harmful if swallowed.
  Acute Tox. 4
  H332 Harmful if inhaled.
  Skin Irrit. 2
  H315 Causes skin irritation.
  Eye Irrit. 2A
  H319 Causes serious eye irritation.
  Skin Sens. 1
  H317 May cause an allergic skin reaction.

· Label elements
· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms
  GHS02 GHS07 GHS09

(Contd. on page 2)
Trade name: SU-8 2000 Series Resists

- **Signal word** Warning

- **Hazard-determining components of labeling:**
  Cyclopentanone  
  Formaldehyde, polymer with (chloromethyl)oxirane and 4,4’-(1-methylethylidene)bis[phenol]  
  Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-(OC-6-11)-hexafluoroantimonate (1-) (1:2)  
  Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)

- **Hazard statements**
  H226 Flammable liquid and vapor.  
  H302+H332 Harmful if swallowed or if inhaled.  
  H315 Causes skin irritation.  
  H319 Causes serious eye irritation.  
  H317 May cause an allergic skin reaction.  
  H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**
  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
  P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
  P280 Wear protective gloves/protective clothing/eye protection/face protection.  
  P233 Keep container tightly closed.  
  P273 Avoid release to the environment.  
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
  P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
  P363 Wash contaminated clothing before reuse.  
  P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
  P337+P313 If eye irritation persists: Get medical advice/attention.  
  P370+P378 In case of fire: Use for extinction: Alcohol resistant foam.  
  P370+P378 In case of fire: Use for extinction: Fire-extinguishing powder.  
  P370+P378 In case of fire: Use for extinction: Carbon dioxide.  
  P391 Collect spillage.  
  P403+P235 Store in a well-ventilated place. Keep cool.  
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    ![NFPA ratings](image)
    Health = 2  
    Fire = 3  
    Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    ![HMIS-ratings](image)
    Health = 2  
    Fire = 3  
    Reactivity = 0

- **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.  
    - **vPvB:** Not applicable.
3 Composition/information on ingredients

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

**Dangerous components:**

- **Formaldehyde, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]**
  - Skin Irrit. 2, H313; Eye Irrit. 2A, H319; Skin Sens. 1, H317
  - 3-75%

- **Cyclopentanone**
  - Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319
  - 15-96%

- **Propylene carbonate**
  - Skin Irrit. 2, H315; Eye Irrit. 2, H319
  - 0.1-5%

- **Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)]**
  - Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317
  - 0.05-2.5%

- **Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)**
  - Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317
  - 0.05-2.5%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air or oxygen; call for doctor.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting unless instructed to do so by a physician. Wash out mouth with water and keep person at rest. Seek immediate medical attention.
- **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:
  - Alcohol resistant foam
  - Fire-extinguishing powder
  - Carbon dioxide
- For safety reasons unsuitable extinguishing agents:
  - Water with full jet
  - Water
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Protective equipment: Wear SCBA.
6 Accidental release measures

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

7 Handling and storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaust at the workplace.
    Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Use explosion-proof apparatus / fittings and spark-proof tools.
    Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and containers:
    Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.
    Store in a cool location.
  - Information about storage in one common storage facility:
    Do not store together with alkalis (caustic solutions).
    Do not store together with oxidizing and acidic materials.
- Further information about storage conditions: Keep container well-sealed in cool, dry location.
- 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:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Control Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>89452-37-9</td>
<td>Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-(OC-6-11)-hexafluoroantimonate (1-) (1:2)</td>
<td>ACGIH TLV TWA</td>
<td>Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH IDLH</td>
<td>Long-term value: 50 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>Long-term value: 0.5 mg/m³</td>
</tr>
</tbody>
</table>
Trade name: SU-8 2000 Series Resists

<table>
<thead>
<tr>
<th>71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV TWA: Long-term value: 0.5 mg/m³</td>
</tr>
<tr>
<td>NIOSH IDLH</td>
</tr>
<tr>
<td>OSHA PEL</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 food and beverages.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes and skin.
- Respiratory equipment:
  In case of low exposure, use cartridge respirator. In case of intensive or longer exposure, use SCBA.
- Protection of hands:
  Protective gloves
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- Material of gloves
  Nitrile rubber, NBR
  Butyl rubber, BR

- Penetration time of glove material
  Contact glove manufacturer for break-through time.

- Eye protection:
  Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  Form: Liquid
  Color: Clear to light yellow
  Odor: Sweet
  Odour threshold: Not determined.

- pH-value:
  Not determined.

- Change in condition
  Melting point/Melting range: Undetermined.
  Boiling point/Boiling range: 130 °C (266 °F)

- Flash point:
  30 °C (86 °F)

- Flammability (solid, gaseous):
  Not applicable.

- Ignition temperature:
  430 °C (806 °F)
Trade name: SU-8 2000 Series Resists

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density:</td>
<td></td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>1.6-2.3 (BuAc)</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water:</td>
<td>Water miscible No</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Other information:</td>
<td>Table 1. Product specific gravity and VOC data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Sp. Grav.</th>
<th>Vol.(% by wt.)</th>
<th>VOC (g/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU-8 2000.1</td>
<td>1.00</td>
<td>94-98</td>
<td>960</td>
</tr>
<tr>
<td>SU-8 2000.2</td>
<td>1.00</td>
<td>90-95</td>
<td>930</td>
</tr>
<tr>
<td>SU-8 2000.5</td>
<td>1.07</td>
<td>85-90</td>
<td>920</td>
</tr>
<tr>
<td>SU-8 2001</td>
<td>1.100</td>
<td>80-85</td>
<td>860</td>
</tr>
<tr>
<td>SU-8 2002</td>
<td>1.123</td>
<td>70-75</td>
<td>800</td>
</tr>
<tr>
<td>SU-8 2005</td>
<td>1.164</td>
<td>50-55</td>
<td>640</td>
</tr>
<tr>
<td>SU-8 2007</td>
<td>1.175</td>
<td>45-50</td>
<td>550</td>
</tr>
<tr>
<td>SU-8 2010</td>
<td>1.187</td>
<td>40-45</td>
<td>500</td>
</tr>
<tr>
<td>SU-8 2015</td>
<td>1.200</td>
<td>35-40</td>
<td>430</td>
</tr>
<tr>
<td>SU-8 2025</td>
<td>1.219</td>
<td>30-35</td>
<td>380</td>
</tr>
<tr>
<td>SU-8 2035</td>
<td>1.227</td>
<td>20-30</td>
<td>370</td>
</tr>
<tr>
<td>SU-8 2050</td>
<td>1.233</td>
<td>20-30</td>
<td>345</td>
</tr>
<tr>
<td>SU-8 2075</td>
<td>1.236</td>
<td>20-30</td>
<td>320</td>
</tr>
<tr>
<td>SU-8 2100</td>
<td>1.237</td>
<td>20-30</td>
<td>310</td>
</tr>
<tr>
<td>SU-8 2150</td>
<td>1.238</td>
<td>20-30</td>
<td>285</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

- Reactivity
- Chemical stability: Stable under normal use conditions
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: Exothermic polymerization.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
  - Carbon monoxide
  - Corrosive gases/vapors
Trade name: SU-8 2000 Series Resists

Danger of toxic pyrolysis products.
Antimony oxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>28906-96-9</td>
<td>Formaldehyde, polymer with (chloromethyl)oxirane and 4,4’-(1-methylethylidene)bis[phenol]</td>
<td>&gt;2000 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td>&gt;5 mg/L (Rat)</td>
</tr>
<tr>
<td>120-92-3</td>
<td>Cyclopentanone</td>
<td>1820 mg/kg (Rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td>19.5 mg/l (Rat)</td>
</tr>
<tr>
<td>108-32-7</td>
<td>Propylene carbonate</td>
<td>&gt;29000 mg/kg (Rat)</td>
<td>&gt;20,000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

· Specific symptoms in biological assay:

Formaldehyde, polymer with (chloromethyl)oxirane and 4,4’-(1-methylethylidene)bis[phenol] CAS 28906-96-9:
This material was mutagenic in the Ames bacterial assay and showed a positive result in a mammalian cell chromosomal aberration test.

Mixture of triarylsulfonium/hexafluoroantimonate salts (CAS 71449-78-0 and 89452-37-9) in propylene carbonate (CAS 108-32-7):
This material was mutagenic in the Ames bacterial assay. It is inactive, however, in the in vivo mouse micronucleus test.

Propylene carbonate (CAS 108-32-7):
This substance had a negative Ames test with or without metabolic activation.

· Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.
· on the eye: Irritating effect.
· Sensitization: Sensitization possible through skin contact.
· Additional toxicological information: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)
None of the ingredients are listed.

· NTP (National Toxicology Program)
None of the ingredients are listed.

12 Ecological information

· Toxicity

· Aquatic toxicity:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Name</th>
<th>LC/EC/IC 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>28906-96-9</td>
<td>Formaldehyde, polymer with (chloromethyl)oxirane and 4,4’-(1-methylethylidene)bis[phenol]</td>
<td>≤1000 mg/l (algae)</td>
</tr>
</tbody>
</table>

(Contd. on page 8)
Trade name: SU-8 2000 Series Resists

<table>
<thead>
<tr>
<th>Chemical</th>
<th>LC50/24 h</th>
<th>LC50/48 hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>89452-37-9 Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)]</td>
<td>4.4 mg/l (daphnia)</td>
<td>0.68 mg/L (daphnia)</td>
</tr>
<tr>
<td>71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)</td>
<td>4.4 mg/l (daphnia)</td>
<td>0.68 mg/L (daphnia)</td>
</tr>
</tbody>
</table>

- **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.
  - **Ecotoxical effects:**
    - **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Also poisonous for fish and plankton in water bodies.
  - Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:** Must not be disposed of as regular garbage/trash. Do not allow product to reach sewage system. Disposal must be made in accordance with Federal, State, and Local regulations.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made in accordance with Federal, State, and Local regulations.

### 14 Transport information

- **UN-Number**
  - UN1866
- **DOT, ADR, IMDG, IATA**
  - Resin solution
  - RESIN SOLUTION (Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1), Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-,(OC-6-11)-hexafluoroantimonate (1-) (1:2)), MARINE POLLUTANT
  - RESIN SOLUTION
### 38.0 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: III
- **Environmental hazards:**
  - Marine pollutant: Yes
- **Special precautions for user**
  - Warning: Flammable liquids
  - Danger code (Kemler): 30
  - EMS Number: F-E,S-D
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.
- **UN "Model Regulation":** UN1866, Resin solution, 3, III

### 15 Regulatory information
- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
  - Section 355 (extremely hazardous substances):
    - None of the ingredients are listed.
  - Section 313 (Specific toxic chemical listings):
    - 89452-37-9 Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-(OC-6-11)-hexafluoroantimonate (1-) (1:2)
    - 71449-78-0 Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)
- **TSCA (Toxic Substances Control Act):**
  - All ingredients are listed or comply with TSCA regulations.
- **Proposition 65**
  - Chemicals known to cause cancer:
    - None of the ingredients are listed.
  - Chemicals known to cause reproductive toxicity for females:
    - None of the ingredients are listed.
### Trade name: SU-8 2000 Series Resists

- **Chemicals known to cause reproductive toxicity for males:**
  
  None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**
  
  None of the ingredients are listed.

- **Carcinogenic categories**
  
  - **EPA (Environmental Protection Agency)**
    
    None of the ingredients are listed.
  
  - **TLV (Threshold Limit Value established by ACGIH)**
    
    None of the ingredients are listed.
  
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    
    None of the ingredients are listed.
  
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    
    None of the ingredients are listed.
  
  - **Massachusetts State Right To Know List**
    
    120-92-3 Cyclopentanone
  
  - **New Jersey State Right To Know List**
    
    120-92-3 Cyclopentanone
  
  - **Pennsylvania Hazardous Substances List**
    
    120-92-3 Cyclopentanone

- **California SCAQMD Rule 443.1 VOC's:** See Table 1 - Section 9

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

- **Hazard pictograms**

- **Signal word** Warning

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

  Cyclopentanone  
  Formaldehyde, polymer with (chloromethyl)oxirane and 4,4'-1-methylethylidene)bis(phenol)  
  Sulfonium, (thiodi-4,1-phenylene) bis[diphenyl-(OC-6-11)-hexafluoroantimonate(1-) (1:2)  
  Sulfonium, diphenyl[4-(phenylthio)phenyl]-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)

- **Hazard statements**

  - H226 Flammable liquid and vapor.
  - H302+H332 Harmful if swallowed or if inhaled.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H317 May cause an allergic skin reaction.
  - H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

  - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P233 Keep container tightly closed.
  - P273 Avoid release to the environment.
Trade name: SU-8 2000 Series Resists

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P363 Wash contaminated clothing before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction: Alcohol resistant foam.
P370+P378 In case of fire: Use for extinction: Fire-extinguishing powder.
P370+P378 In case of fire: Use for extinction: Carbon dioxide.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
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 MSDS: Product safety department
- Contact: Mr. Cole

- Revision History:
The business address of the manufacturer in Section 1 was updated. The hazard classification and precautionary statements for the mixture in Section 2 were revised. The toxicology data in Sections 11 and 12 were revised.
- Date of preparation / last revision 10/15/2014 / 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)
  ICAO: International Civil Aviation Organization
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent