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QUBICATAME

# **1** Identification

- · Product identifier
- · Trade name: Epoxy Injection Hardener
- Article number: 294007082
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier: QubicaAMF Worldwide, LLC 8100 AMF Drive Mechanicsville, VA 23111, USA*

General Telephone 804-730-4000; 800-342-5263

 Information department: Product safety department.
 Emergency telephone number: ChemTel 24-hour Emergency Phone Numbers

United States, Canada, Puerto Rico, U.S. Virgin Islands: 1-800-255-3924, Australia: 1-300-954-583, Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086, Mexico: 01-800-099-0731, All other countries (collect calls accepted): +1-813-248-0585

| 2 Hazard(s) identification  |
|---|
| · Classification of the substance or mixture  |
| GHS08 Health hazard   |
| Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| Repr. 2H361 Suspected of damaging fertility or the unborn child.  |
| GHS05 Corrosion   |
| Skin Corr. 1B H314 Causes severe skin burns and eye damage.   |
| Eye Dam. 1 H318 Causes serious eye damage.  |
| GHS07   |
| Acute Tox. 4 H302 Harmful if swallowed.   |
| Acute Tox. 4 H312 Harmful in contact with skin.   |
| Skin Sens. 1 H317 May cause an allergic skin reaction.  |
| STOT SE 3 H335 May cause respiratory irritation.  |
| <ul> <li>Label elements</li> <li>GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms GHS05, GHS07, GHS08</li> <li>Signal word Danger</li> </ul>  |
| • <i>Hazard-determining components of labeling:</i><br>Fatty Acids, vegetable-oil, reaction products with tetraethylenepentamine<br>4-nonylphenol, branched<br>Fatty acids, tall-oil, reaction products with tetraethylenepentamine |
| tetraethylenepentamine (Contd. on page 2)   |

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|--|
| · Hazard statements  |
| Harmful if swallowed or in contact with skin.  |
| Causes severe skin burns and eye damage.   |
| May cause allergy or asthma symptoms or breathing difficulties if inhaled.                                     |
| May cause an allergic skin reaction.   |
| Suspected of damaging fertility or the unborn child.   |
| May cause respiratory irritation.  |
| · Precautionary statements   |
| Obtain special instructions before use.  |
| Do not handle until all safety precautions have been read and understood.                                      |
| Do not breathe dusts or mists.   |
| Wash thoroughly after handling.  |
| Do not eat, drink or smoke when using this product.  |
| Use only outdoors or in a well-ventilated area.  |
| Contaminated work clothing must not be allowed out of the workplace.   |
| Wear protective gloves/protective clothing/eye protection/face protection.                                     |
| [In case of inadequate ventilation] wear respiratory protection.   |
| IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  |
| If swallowed: Rinse mouth. Do NOT induce vomiting.   |
| If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.            |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                     |
| If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. |
| Continue rinsing.  |
| IF exposed or concerned: Get medical advice/attention.   |
| Immediately call a POISON CENTER/doctor.   |
| Specific treatment (see on this label).  |
| If skin irritation or rash occurs: Get medical advice/attention.   |
| If experiencing respiratory symptoms: Call a POISON CENTER/doctor.   |
| Take off contaminated clothing and wash it before reuse.   |
| Wash contaminated clothing before reuse.   |
| 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 = 3   |
| Fire = $1$   |
| $\frac{3}{Reactivity} = 0$   |
| · HMIS-ratings (scale 0 - 4)   |
|  |
| HEALTH <sup>13</sup> Health = $*3$   |
| FIRE 1 Fire = 1  |
| <b>REACTIVITY</b> O Reactivity = 0   |

· Other hazards

Additional Health Hazards: Corrosive to the eyes, skin, and respiratory tract. May be toxic if absorbed through skin.

Inhalation: May cause severe eye, skin, and respiratory tract burns. May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of the respiratory system.

Eye Contact: Causes eye burns. May cause blindness. Severe eye irritation.

Skin contact: Causes skin burns.

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Ingestion: Causes Severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

### 3 Composition/information on ingredients

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

· Dangerous components:

| Dungerous components   |         |
|--|---------|
| 68991-84-4 Fatty Acids, vegetable-oil, reaction products with tetraethylenepentamine | 25-50%  |
| 68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine      | 25-50%  |
| 84852-15-3 4-nonylphenol, branched   | 10-25%  |
| 112-57-2 tetraethylenepentamine  | 10-25%  |
| 7631-86-9 silicon dioxide, chemically prepared (wetted form, non-particulate)        | 2.5-10% |
|  |         |

· Additional Information Chemical Family: Aliphatic Amine Mixture

## **4** First-aid measures

#### · Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

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

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain gentle and continuous irrigation with water until the patient receives medical care. If medical care is not promptly available, continue to iirigate (use soap if available) for one hour. Cover the wound with sterile dressing. Take off contaminated clothing and shoes immediately. Do not reuse clothing until thoroughly cleaned.

*NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation. After eye contact:* 

Rinse opened eye for several minutes under running water. Then consult a doctor.

Hold eyelids apart, initiate and maintain gentle and continuous irrigation of the eye with water until the patient receives medical care. If medical care is not promptly available, conitinue to irrigate for one hour. Rinse immediately with plenty of water also under the eyelids for atleast 20 minutes.

#### • After swallowing:

*Immediately call a doctor.* 

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Never give anything by mouth to an unconsciuos person. Do not induce vomiting. Give one glass of water unless victim is drowsy, convulsing, or unconscious. Seek medical attention immediately.

• Information for doctor:

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

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• *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:

Do not use water in a jet. Product will float. Water or fog may cause frothing which can be violent, especially if sprayed into containers of hot or burning liquid.

· Special hazards arising from the substance or mixture

Material will not burn unless preheated. Delayed lung damage (pulmonary edema) can be experienced after exposure to combustion products, sometimes hours after the exposure. May generate ammonia gas, toxic nitrogen oxide gasess and other potentially hazardous nitrogen-containing compounds may be released upon combustion.

Use of water to fight fire may result in the formation of very toxic aqueous solutions. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.

Cool fire exposed containers with water.

- · Advice for firefighters
- · Protective equipment:

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus.

#### **6** Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Corrosive. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas. Use cautious judgement when cleaning up large spills. Shut off leaks, if possible without personal risk.

• Environmental precautions:

Do not allow product to reach sewage system or any water course. 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). Use neutralizing agent.

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.

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## 7 Handling and storage

#### · Handling:

#### · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. DANGER: Corrosive

Avoid contact with skin and eyes. Emergency Showers and eye wash stations should be readily accessible. Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols.

Heating this product above 300 Deg. F in the presence of air may cause slow oxidative decomposition; above 500 Deg. F, polymerization may occur. Some epoxy resins can produce exothermic reactions which in large masses can cause runaway polymerization. Fumes and vapors from these thermal and chemical decomposition may be extremely toxic. Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors. 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:
- Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.
- *Information about storage in one common storage facility:* Do not store together with oxidizing and acidic materials.
- 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:

112-57-2 tetraethylenepentamine

WEEL Long-term value: 5 mg/m<sup>3</sup>

Skin; DSEN

• 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. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

• Breathing equipment:

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

• Protection of hands:



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

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

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

• Eye protection:



Tightly sealed goggles

*Full face shields with tightly sealed goggles underneath. Contact lenses should not be worn.* • *Body protection: Impervious protective clothing* 

| Information on basic physical and o | chemical properties                           |  |
|-------------------------------------|---|--|
| General Information                 |   |  |
| Appearance:                         |   |  |
| Form:                               | Liquid  |  |
| Color:                              | According to product specification            |  |
| Odor:<br>Odor threshold:            | Amine-like<br>Not determined.                 |  |
| Oaor threshola:                     | Not determined.                               |  |
| pH-value:                           | Not determined.                               |  |
| Change in condition                 |   |  |
| Melting point/Melting range:        | Undetermined.                                 |  |
| Boiling point/Boiling range:        | 293 °C (559 °F)                               |  |
| Flash point:                        | 94 °C (201 °F)                                |  |
| Flammability (solid, gaseous):      | Not applicable.                               |  |
| Ignition temperature:               | > 370 °C (> 698 °F)                           |  |
| Decomposition temperature:          | Not determined.                               |  |
| Auto igniting:                      | Product is not selfigniting.                  |  |
| Danger of explosion:                | Product does not present an explosion hazard. |  |
| Explosion limits:                   |   |  |
| Lower:                              | Not determined.                               |  |
| Upper:                              | Not determined.                               |  |
| Vapor pressure at 20 °C (68 °F):    | 1 hPa (1 mm Hg)                               |  |
| Density:                            | Not determined.                               |  |
| Relative density                    | Not determined.                               |  |
| Vapor density                       | Not determined.                               |  |
| Evaporation rate                    | Not determined.                               |  |

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|                                    |  | (Contd. of page |
|------------------------------------|--|-----------------|
| · Solubility in / Miscibility with |  |                 |
| Water:                             | Not miscible or difficult to mix.          |                 |
| · Partition coefficient (n-octanol | /water): Not determined.                   |                 |
| · Viscosity:                       |  |                 |
| Dynamic:                           | Not determined.                            |                 |
| Kinematic:                         | Not determined.                            |                 |
| · Solvent content:                 |  |                 |
| Organic solvents:                  | 0.0 %                                      |                 |
| VOC content:                       | 0.4 g/l / 0.00 lb/gl                       |                 |
| Solids content:                    | 81.0 %                                     |                 |
| • Other information                | No further relevant information available. |                 |

## 10 Stability and reactivity

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Hazardous polymerization may occur with epoxy resins in large masses.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Sodium hypochlorite, lewis or mineral acids, Organic bases such as primary and secondary aliphatic amines, ketones, aldehydes, and oxidizing agents. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. A reaction accompanied by large heat release occurs when the product is mixed with acids.

• Hazardous decomposition products:

Nitrogen oxides, ammonia, carbon monoxide and unidentified organic compounds (some containing nitrogen) may be formed during thermal or oxidative decomposition or combustion. Nitrogen oxide can react with water vapors to form corrosive nitric acid.

## **11 Toxicological information**

· Information on toxicological effects

|          |          | es that are relevant for classification:                                |
|----------|----------|---|
| 68991-8  | 4-4 Fa   | tty Acids, vegetable-oil, reaction products with tetraethylenepentamine |
| Oral     | LD50     | >2000 mg/kg (rat)   |
| Dermal   | LD50     | $\leq 2000 mg/kg (rabbit)$  |
| 68953-3  | 6-6 Fa   | tty acids, tall-oil, reaction products with tetraethylenepentamine      |
| Oral     | LD50     | >2000 mg/kg (rat)   |
| Dermal   | LD50     | $\leq 2000 mg/kg (rabbit)$  |
| 84852-1  | 5-3 4-ı  | ionylphenol, branched   |
| Oral     | LD50     | 580 mg/kg (rat)   |
| Dermal   | LD50     | 2140 mg/kg (rabbit)   |
| 112-57-2 | 2 tetrae | ethylenepentamine   |
| Dermal   | LD50     | 660 mg/kg (rabbit)  |
|          |          | (Contd. on page 8   |

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## Safety Data Sheet acc. to OSHA HCS

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• on the skin: Caustic effect on skin and mucous membranes.

 $\cdot$  on the eye: Strong caustic effect.

· Primary irritant effect:

· Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

### • Additional toxicological information:

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

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### · Carcinogenic categories

| 0 0   |    |  |  |
|---|----|--|--|
| · IARC (International Agency for Research on Cancer)                          |    |  |  |
| 7631-86-9 silicon dioxide, chemically prepared (wetted form, non-particulate) | 3  |  |  |
| 1330-20-7 xylene  | 3  |  |  |
| 1333-86-4 Carbon black wetted form, non-particulate                           | 2B |  |  |
| · 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

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.

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# **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.

Dispose of in accordance to all local, state, and/or national regislation.

| UN-Number                             |   |
|---------------------------------------|---|
| DOT                                   | UN1760  |
| ADR, IMDG, IATA                       | 1760  |
| UN proper shipping name               |   |
| ADR                                   | 1760 CORROSIVE LIQUID, N.O.<br>(TETRAETHYLENEPENTAMINE) |
| IMDG, IATA                            | CORROSIVE LIQUID, N.O.S. (TETRAETHYLENEPENTAMINE)       |
| Transport hazard class(es)            |   |
| DOT                                   |   |
|                                       |   |
| Class                                 | 8 Corrosive substances                                  |
| Label                                 | 8   |
|                                       |   |
| Class                                 | 8 Corrosive substances                                  |
| Label                                 | 8   |
| IATA                                  |   |
|                                       |   |
| Class                                 | 8 Corrosive substances                                  |
| Label                                 | 8   |
| Packing group<br>DOT, ADR, IMDG, IATA | III   |
| Environmental hazards:                | Product contains environmentally hazardous substances:  |

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|  | (Contd. of page                                  |
|--|--|
| · Marine pollutant:                          | Yes  |
| •  | Symbol (fish and tree)                           |
| · Special marking (ADR):                     | Symbol (fish and tree)                           |
| · Special precautions for user               | Warning: Corrosive substances                    |
| · Danger code (Kemler):                      | 80   |
| · EMS Number:                                | F-A,S-B  |
| · Transport in bulk according to Annex II of |  |
| MARPOL73/78 and the IBC Code                 | Not applicable.                                  |
| · Transport/Additional information:          |  |
| ·DOT   |  |
| · Remarks:                                   | Special marking with the symbol (fish and tree). |
| · UN ''Model Regulation'':                   | UN1760, CORROSIVE LIQUID, N.O.S., 8, III         |

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

| · Section 355 (extremely hazardous substances):   |
|---|
| None of the ingredient is listed.                 |
| · Section 313 (Specific toxic chemical listings): |
| 1330-20-7 xylene                                  |
| · TSCA (Toxic Substances Control Act):            |

All ingredients are listed.

· California Proposition 65

· Chemicals known to cause cancer:

1333-86-4 Carbon black wetted form, non-particulate

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Cancerogenity categories

· EPA (Environmental Protection Agency)

1330-20-7 xylene

· TLV (Threshold Limit Value established by ACGIH)

1330-20-7 xylene

1333-86-4 Carbon black wetted form, non-particulate

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

1333-86-4 Carbon black wetted form, non-particulate

· Chinese Chemical Inventory of Existing Chemical Substances

All ingredients are listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 11)

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|--|---------------------|
| • Hazard pictograms GHS05, GHS07, GHS08<br>• Signal word Danger                                    |                     |
|  |                     |
| · Hazard-determining components of labeling:   |                     |
| Fatty Acids, vegetable-oil, reaction products with tetraethylenepentamine                          |                     |
| 4-nonylphenol, branched  |                     |
| Fatty acids, tall-oil, reaction products with tetraethylenepentamine                               |                     |
| tetraethylenepentamine   |                     |
| · Hazard statements  |                     |
| Harmful if swallowed or in contact with skin.  |                     |
| Causes severe skin burns and eye damage.   |                     |
| May cause allergy or asthma symptoms or breathing difficulties if inhaled.                         |                     |
| May cause an allergic skin reaction.   |                     |
| Suspected of damaging fertility or the unborn child.   |                     |
| May cause respiratory irritation.  |                     |
| · Precautionary statements   |                     |
| Obtain special instructions before use.  |                     |
| Do not handle until all safety precautions have been read and understood.                          |                     |
| Do not breathe dusts or mists.   |                     |
| Wash thoroughly after handling.  |                     |
| Do not eat, drink or smoke when using this product.  |                     |
| Use only outdoors or in a well-ventilated area.  |                     |
| Contaminated work clothing must not be allowed out of the workplace.                               |                     |
| Wear protective gloves/protective clothing/eye protection/face protection.                         |                     |
| [In case of inadequate ventilation] wear respiratory protection.                                   |                     |
| IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.                                      |                     |
| If swallowed: Rinse mouth. Do NOT induce vomiting.   |                     |
| If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower | <i>r</i> .          |
| 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     | t and easy to do.   |
| Continue rinsing.  |                     |
| IF exposed or concerned: Get medical advice/attention.   |                     |
| Immediately call a POISON CENTER/doctor.   |                     |
| Specific treatment (see on this label).  |                     |
| If skin irritation or rash occurs: Get medical advice/attention.                                   |                     |
| If experiencing respiratory symptoms: Call a POISON CENTER/doctor.                                 |                     |
| Take off contaminated clothing and wash it before reuse.   |                     |
| Wash contaminated clothing before reuse.   |                     |
| Store in a well-ventilated place. Keep container tightly closed.                                   |                     |
| Store locked up.   |                     |
| Dispose of contents/container in accordance with local/regional/national/international regulation  | ns.                 |
| · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.               |                     |

# **16 Other information**

Health and safety information presented on this form is generally applicable for recomended usage of this product. This information was compiled from current, reliable sources and is believed to be correct. As data and/or regulations change and conditions of use and handling are beyond our control, no warranty, express, or implied, is made as to completeness or continuing accuracy of this information.

· Department issuing SDS: Product safety department.

· Date of preparation / last revision 11/22/2017 / -

· 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)

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|---|
| 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)   |
| NFPA: National Fire Protection Association (USA)  |
| HMIS: Hazardous Materials Identification System (USA)   |
| VOC: Volatile Organic Compounds (USA, EU)   |
| LC50: Lethal concentration, 50 percent  |
| LD50: Lethal dose, 50 percent   |
| PBT: Persistent, Bioaccumulative and Toxic  |
| vPvB: very Persistent and very Bioaccumulative  |
| NIOSH: National Institute for Occupational Safety   |
| OSHA: Occupational Safety & Health  |
| TLV: Threshold Limit Value  |
| PEL: Permissible Exposure Limit   |
| REL: Recommended Exposure Limit   |
| Acute Tox. 4: Acute toxicity – Category 4   |
| Skin Corr. 1B: Skin corrosion/irritation – Category 1B  |
| Eye Dam. 1: Serious eye damage/eye irritation – Category 1  |
| Resp. Sens. 1: Respiratory sensitisation – Category 1   |
| Skin Sens. 1: Skin sensitisation – Category 1   |
| Repr. 2: Reproductive toxicity – Category 2   |
| STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  |
| - US  |