

### **SAFETY DATA SHEET**

#### **High Solids Polyurethane Enamel Gloss X-501 Curing Solution**

#### **Section 1. Identification**

GHS product identifier : High Solids Polyurethane Enamel Gloss X-501 Curing

Other means of identification : Solution

X-501\_Curing Solution

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

: FOR INDUSTRIAL USE ONLY

Supplier/Manufacturer : Akzo Nobel Coatings, Inc.

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USA

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CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls

accepted)

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Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

#### Section 2. Hazards identification

**OSHA/HCS** status This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

Classification of the substance or mixture FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation and Narcotic effects) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 48.8%

#### **GHS label elements**

Hazard pictograms





Signal word Warning

Hazard statements Flammable liquid and vapour.

Harmful if inhaled.

May be harmful if swallowed. Causes serious eye irritation. Causes skin irritation.

May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.

#### **Precautionary statements**

Prevention Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands

thoroughly after handling.

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

> a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

attention.

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

Disposal Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not result in classification

: None known.

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### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

#### **Hazardous ingredients**

| Ingredient name / Chemical name       | %       | CAS number |
|---------------------------------------|---------|------------|
| heptan-2-one                          | 25 - 50 | 110-43-0   |
| Hexamethylene diisocyanate, oligomers | 25 - 50 | 28182-81-2 |
| pentane-2,4-dione                     | 1 - 2.5 | 123-54-6   |
| 4-isocyanatosulphonyltoluene          | 0 - 1   | 4083-64-1  |

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

### Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air

and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

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#### Section 4. First aid measures

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May

cause drowsiness or dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : May be harmful if swallowed. Can cause central nervous system (CNS) depression.

Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

**Suitable extinguishing** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

media

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to

sewer may create fire or explosion hazard.

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### Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

| Ingredient name                | Exposure limits   |
|--------------------------------|---|
| heptan-2-one pentane-2,4-dione | ACGIH TLV (United States, 3/2015).  TWA: 233 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.  ACGIH TLV (United States, 3/2015).  Absorbed through skin.  TWA: 25 ppm 8 hours. |

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Section 8. Exposure controls/personal protection

#### **Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products,

before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash

goggles.

**Skin protection** 

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately

estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must

standard if a risk assessment indicates this is necessary. Respirator selection mus be based on known or anticipated exposure levels, the hazards of the product and

the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

#### **Appearance**

boiling range

Physical state : Liquid.

Color : Yellowish.
Odor : Solvent.
Odor threshold : Not available.

PH : Not available.
Melting/freezing point : Not available.
Boiling point : 140°C (284°F)

Flash point : Closed cup: 34°C (93.2°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.

: Not available.

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### Section 9. Physical and chemical properties

Upper/lower flammability or explosive limits

Upper: : Not determined.Lower: : Not determined.: Not available.

Vapor pressure: Not available.Vapor density: Not available.

Relative density : 0.957

**Density** : 7.99 lbs/gal 0.957 g/cm³

Solubility: Not available.Solubility in water: Not available.Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.

Viscosity : Kinematic (room temperature): 1.15 cm²/s (115 cSt)

 Weight Volatiles
 : 50.93% (w/w)

 Volume Volatiles
 : 59.55 %(v/v)

 Weight Solids
 : 49.07 %(w/w)

 Volume Solids
 : 40.45 %(v/v)

Regulatory VOC : 4.07 lbs/gal (488 g/l) minus water and exempt solvents

### Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

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# **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name      |             |     |            |   |
|------------------------------|-------------|-----|------------|---|
| heptan-2-one                 | LD50 Oral   | Rat | 1600 mg/kg | - |
| pentane-2,4-dione            | LD50 Dermal | Rat | 790 mg/kg  | - |
| 4-isocyanatosulphonyltoluene | LD50 Oral   | Rat | 2234 mg/kg | - |

#### Irritation/Corrosion

| Product/ingredient name                  | Result                   | Species | Score | Exposure                                     | Observation |
|--|--------------------------|---------|-------|--|-------------|
| heptan-2-one                             | Skin - Mild irritant     | Rabbit  | -     | 24 hours 14                                  | -           |
| Hexamethylene<br>diisocyanate, oligomers | Eyes - Moderate irritant | Rabbit  | -     | milligrams<br>100<br>milligrams              | -           |
| ,  | Skin - Moderate irritant | Rabbit  | -     | 500<br>milligrams                            | -           |
| pentane-2,4-dione                        | Eyes - Severe irritant   | Rabbit  | -     | 20 milligrams                                | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 488<br>milligrams                            | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 6 hours 11.2<br>Mililiters<br>Intermittent   | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 48 hours 11.<br>2 Mililiters<br>Intermittent | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 6 hours 33.6<br>Mililiters<br>Intermittent   | -           |
| 4-isocyanatosulphonyltoluene             | Eyes - Moderate irritant | Rabbit  | -     | 100<br>microliters                           | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 microliters                     | -           |

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

### **Section 11. Toxicological information**

| Name  | Category                 | Route of exposure                  | Target organs                                       |
|---|--------------------------|------------------------------------|---|
| heptan-2-one<br>Hexamethylene diisocyanate, oligomers | Category 3<br>Category 3 | Not applicable.<br>Not applicable. | Narcotic effects<br>Respiratory tract<br>irritation |
| 4-isocyanatosulphonyltoluene                          | Category 3               | Not applicable.                    | Respiratory tract irritation                        |

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May

cause drowsiness or dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be

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delayed following exposure.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : May be harmful if swallowed. Can cause central nervous system (CNS) depression.

Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

# Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

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### **Section 11. Toxicological information**

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

| Route                        | ATE value     |
|------------------------------|---------------|
| Oral                         | 2941.3 mg/kg  |
| Dermal                       | 50119.1 mg/kg |
| Inhalation (gases)           | 9225.5 ppm    |
| Inhalation (vapors)          | 10.59 mg/l    |
| Inhalation (dusts and mists) | 3.075 mg/l    |

### **Section 12. Ecological information**

#### **Toxicity**

| Product/ingredient name | Result   | Species   | Exposure             |
|-------------------------|--|---|----------------------|
| heptan-2-one            | Acute LC50 131000 to 137000 μg/l<br>Fresh water                                    | Fish - Pimephales promelas                            | 96 hours             |
| pentane-2,4-dione       | Acute EC50 75000 to 78000 μg/l Fresh water   | Crustaceans - Ceriodaphnia reticulata - Larvae        | 48 hours             |
|                         | Acute LC50 35400 ul/L Fresh water<br>Acute LC50 60100 to 71800 µg/l Fresh<br>water | Daphnia - Daphnia magna<br>Fish - Lepomis macrochirus | 48 hours<br>96 hours |

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

### **Section 12. Ecological information**

| Product/ingredient name                     | LogP <sub>ow</sub> | BCF        | Potential  |
|---|--------------------|------------|------------|
| heptan-2-one<br>Hexamethylene diisocyanate, | 2.26<br>5.54       | -<br>367.7 | low<br>low |
| oligomers<br>pentane-2,4-dione              | 0.68               | -          | low        |

#### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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### **Section 14. Transport information**

#### Special precautions for user :

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment of the DOT information.

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# Section 14. Transport information

|                               | DOT<br>Classification        | TDG<br>Classification        | Mexico<br>Classification     | IMDG                         | IATA                         |
|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| UN number                     | UN1263                       | UN1263                       | UN1263                       | UN1263                       | UN1263                       |
| UN proper shipping name       | PAINT<br>RELATED<br>MATERIAL | PAINT<br>RELATED<br>MATERIAL | PAINT<br>RELATED<br>MATERIAL | PAINT<br>RELATED<br>MATERIAL | PAINT<br>RELATED<br>MATERIAL |
| Transport<br>hazard class(es) | 3                            | 3                            | 3                            | 3                            | 3                            |
| Packing group                 | III                          | III                          | III                          | III                          | III                          |
| Environmental hazards         | No.                          | No.                          | No.                          | No.                          | No.                          |

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### **Section 15. Regulatory information**

#### U.S. Federal regulations

United States inventory (TSCA 8b)

: All components are listed or exempted.

SARA 311/312

Classification : Fire hazard

Immediate (acute) health hazard

#### **International lists**

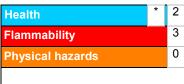
**National inventory** 

**Australia** : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. **Europe** : All components are listed or exempted. Japan : All components are listed or exempted. Malaysia : At least one component is not listed. **New Zealand** : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted. Taiwan : All components are listed or exempted.

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#### **Section 16. Other information**

#### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

Date of issue/Date of revision : 2 December 2015

Version : 15.01 MSDS# : 007975 0008

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

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### **Section 16. Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.