

### **SAFETY DATA SHEET**

#### High Solids Polyurethane Lusterless Enamel 666-58-6173

### **Section 1. Identification**

GHS product identifier : High Solids Polyurethane Lusterless Enamel

Other means of identification : 666-58-6173

666-58-6173 Flat Gray 595C-36173 #F15078

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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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 2 ACUTE TOXICITY (oral) - Category 5

SKIN CORROSION/IRRITATION - Category 3

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 55.2% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 62.4%

#### **GHS label elements**

Hazard pictograms





Signal word : Danger

**Hazard statements** : Highly flammable liquid and vapor.

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

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

#### **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 release to the environment. 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 skin irritation 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  |
|--|----------|-------------|
| butanone   | 10 - 25  | 78-93-3     |
| silicon dioxide                                  | 10 - 25  | 7631-86-9   |
| Acetic acid, C7-9-branched alkyl esters, C8-rich | 2.5 - 10 | 108419-32-5 |
| titanium dioxide                                 | 2.5 - 10 | 13463-67-7  |
| heptan-2-one                                     | 2.5 - 10 | 110-43-0    |
| Phosphoric Acid Polyester                        | 2.5 - 10 | -           |
| 2-butoxyethyl acetate                            | 2.5 - 10 | 112-07-2    |
| n-butyl acetate                                  | 2.5 - 10 | 123-86-4    |
| ethyl 3-ethoxypropionate                         | 1 - 2.5  | 763-69-9    |
| hexyl acetate                                    | 1 - 2.5  | 142-92-7    |
| Solvent naphtha (petroleum), light arom.         | 1 - 2.5  | 64742-95-6  |

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.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. 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

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#### Section 4. First aid measures

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

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact : Causes mild skin irritation.

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:

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 : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**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.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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### **Section 5. Fire-fighting measures**

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide metal oxide/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). Water polluting material. May be harmful to the environment if released in large quantities.

#### 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. 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                    |
|-----------------------|------------------------------------|
| butanone              | ACGIH TLV (United States, 3/2015). |
|                       | STEL: 885 mg/m³ 15 minutes.        |
|                       | STEL: 300 ppm 15 minutes.          |
|                       | TWA: 590 mg/m³ 8 hours.            |
|                       | TWA: 200 ppm 8 hours.              |
| titanium dioxide      | ACGIH TLV (United States, 3/2015). |
|                       | TWA: 10 mg/m³ 8 hours.             |
| heptan-2-one          | ACGIH TLV (United States, 3/2015). |
|                       | TWA: 233 mg/m³ 8 hours.            |
|                       | TWA: 50 ppm 8 hours.               |
| 2-butoxyethyl acetate | ACGIH TLV (United States, 3/2015). |
|                       | TWA: 20 ppm 8 hours.               |
| n-butyl acetate       | ACGIH TLV (United States, 3/2015). |
|                       | STEL: 200 ppm 15 minutes.          |
|                       | TWA: 150 ppm 8 hours.              |

### Section 8. Exposure controls/personal protection

### 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.

#### **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. 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 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** 

Physical state: Liquid.

Color : Gray.

Odor : Solvent.

Odor threshold : Not available.

pH : Not available.

Melting/freezing point : Not available.

Boiling point : 80°C (176°F)

boiling range : Not available.

Flash point : Closed cup: -4°C (24.8°F)

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits

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

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

Relative density : 1.13

**Density** : 9.43 lbs/gal 1.13 g/cm<sup>3</sup>

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): 2.21 cm<sup>2</sup>/s (221 cSt)

 Weight Volatiles
 : 44.22% (w/w)

 Volume Volatiles
 : 59.19 %(v/v)

 Weight Solids
 : 55.78 %(w/w)

 Volume Solids
 : 40.81 %(v/v)

Regulatory VOC : 4.16 lbs/gal (498 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.

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### Section 10. Stability and reactivity

**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.

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

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name                          |                       |        |              |         |
|--|-----------------------|--------|--------------|---------|
| butanone   | LD50 Dermal           | Rabbit | 6480 mg/kg   | -       |
|  | LD50 Oral             | Rat    | 2737 mg/kg   | =       |
| Acetic acid, C7-9-branched alkyl esters, C8-rich | LD50 Oral             | Rat    | 5 g/kg       | -       |
| heptan-2-one                                     | LD50 Oral             | Rat    | 1600 mg/kg   | =       |
| 2-butoxyethyl acetate                            | LD50 Dermal           | Rabbit | 1500 mg/kg   | =       |
|  | LD50 Oral             | Rat    | 2400 mg/kg   | =       |
| n-butyl acetate                                  | LC50 Inhalation Vapor | Rat    | 390 ppm      | 4 hours |
|  | LD50 Dermal           | Rabbit | >17600 mg/kg | =       |
|  | LD50 Oral             | Rat    | 10768 mg/kg  | -       |
| ethyl 3-ethoxypropionate                         | LD50 Oral             | Rat    | 3200 mg/kg   | -       |
| hexyl acetate                                    | LD50 Dermal           | Rabbit | >5000 mg/kg  | -       |
|  | LD50 Oral             | Rat    | 36105 mg/kg  | -       |
| Solvent naphtha (petroleum), light arom.         | LD50 Oral             | Rat    | 8400 mg/kg   | -       |

#### Irritation/Corrosion

| Result                   | Species  | Score   | Exposure   | Observation  |
|--------------------------|--|---|--|--|
| Skin - Mild irritant     | Rabbit   | -   | 24 hours 14  | _  |
|                          |  |   | milligrams   |  |
| Skin - Moderate irritant | Rabbit   | -   |  | -  |
|                          |  |   |  |  |
| Eyes - Mild irritant     | Rabbit   | -   |  | -  |
|                          |  |   |  |  |
| Skin - Mild irritant     | Human  | -   |  | -  |
|                          |  |   |  |  |
| OL: NATILE II            | B  |   |  |  |
| Skin - Milia irritant    | Rabbit   | -   |  | -  |
| France Mild instance     | D - 1- 1- 14   |   | "  |  |
| Eyes - Milid irritant    | Rabbit   | -   |  | -  |
| Skip Mild irritant       | Dabbit   |   | "  |  |
| Skiii - Willa IIIItalit  | Rabbit   | -   |  | -  |
| Eves - Moderate irritant | Rahhit   |   | "  | _  |
| Lycs Woderate IIIItani   | Rabbit   |   |  |  |
| Skin - Moderate irritant | Rabbit   | _   |  | _  |
| S                        |  |   |  |  |
| Skin - Mild irritant     | Rabbit   | _   |  | -  |
|                          |  |   | milligrams   |  |
|                          | Skin - Mild irritant Skin - Moderate irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant | Skin - Mild irritant  Skin - Moderate irritant  Eyes - Mild irritant  Skin - Mild irritant  Human  Skin - Mild irritant  Rabbit  Eyes - Mild irritant  Rabbit  Eyes - Mild irritant  Rabbit  Eyes - Mild irritant  Rabbit  Skin - Mild irritant  Rabbit  Rabbit  Eyes - Moderate irritant  Rabbit  Rabbit | Skin - Mild irritant Rabbit - Skin - Moderate irritant Rabbit - Eyes - Mild irritant Rabbit - Skin - Mild irritant Human - Skin - Mild irritant Rabbit - Eyes - Mild irritant Rabbit - Skin - Mild irritant Rabbit - Skin - Mild irritant Rabbit - Skin - Moderate irritant Rabbit - Skin - Moderate irritant Rabbit - | Skin - Mild irritant  Rabbit  Rabbit |

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

| hexyl acetate            | Eyes - Mild irritant | Rabbit | - | 24 hours 500 - |  |
|--------------------------|----------------------|--------|---|----------------|--|
|                          |                      |        |   | milligrams     |  |
|                          | Skin - Mild irritant | Rabbit | - | 24 hours 500 - |  |
|                          |                      |        |   | milligrams     |  |
| Solvent naphtha          | Eyes - Mild irritant | Rabbit | - | 24 hours 100 - |  |
| (petroleum), light arom. |                      |        |   | microliters    |  |

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#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

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

| Name   | Category                 | Route of exposure  | Target organs  |
|--|--------------------------|--|--|
| butanone heptan-2-one n-butyl acetate Solvent naphtha (petroleum), light arom. | Category 3<br>Category 3 | Not applicable.<br>Not applicable.<br>Not applicable.<br>Not applicable. | Narcotic effects Narcotic effects Narcotic effects Respiratory tract irritation and Narcotic effects |

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

Not available.

#### **Aspiration hazard**

| Name                                     | Result                         |
|--|--------------------------------|
| Solvent naphtha (petroleum), light arom. | ASPIRATION HAZARD - Category 1 |

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

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

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact** : Causes mild skin irritation.

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

Irritating to mouth, throat and stomach.

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

#### 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:

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** 

Potential immediate : Not available.

effects

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 : No known significant effects or critical hazards.
 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                         | 3462.1 mg/kg  |
| Dermal                       | 23495.9 mg/kg |
| Inhalation (gases)           | 70487.7 ppm   |
| Inhalation (vapors)          | 77.55 mg/l    |
| Inhalation (dusts and mists) | 23.5 mg/l     |

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

#### **Toxicity**

| Product/ingredient name | Result                                       | Species                                    | Exposure |
|-------------------------|--|--|----------|
| butanone                | Acute EC50 >500000 μg/l Marine water         | Algae - Skeletonema costatum               | 96 hours |
|                         | Acute EC50 5091000 to 6440000 μg/l           | Daphnia - Daphnia magna -                  | 48 hours |
|                         | Fresh water                                  | Larvae                                     |          |
|                         | Acute LC50 5600 ppm Fresh water              | Fish - Gambusia affinis - Adult            | 96 hours |
| titanium dioxide        | Acute LC50 3 mg/l Fresh water                | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
|                         | Acute LC50 6.5 mg/l Fresh water              | Daphnia - Daphnia pulex - Neonate          | 48 hours |
|                         | Acute LC50 >1000000 μg/l Marine water        | Fish - Fundulus heteroclitus               | 96 hours |
| heptan-2-one            | Acute LC50 131000 to 137000 μg/l Fresh water | Fish - Pimephales promelas                 | 96 hours |
| n-butyl acetate         | Acute LC50 32000 μg/l Marine water           | Crustaceans - Artemia salina - Nauplii     | 48 hours |
|                         | Acute LC50 62000 μg/l                        | Fish - Danio rerio                         | 96 hours |
| hexyl acetate           | Acute LC50 4000 to 4400 μg/l Fresh water     | Fish - Pimephales promelas                 | 96 hours |

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

| Product/ingredient name                  | LogPow | BCF        | Potential |
|--|--------|------------|-----------|
| butanone                                 | 0.3    | -          | low       |
| titanium dioxide                         | -      | 352        | low       |
| heptan-2-one                             | 2.26   | -          | low       |
| 2-butoxyethyl acetate                    | 1.51   | -          | low       |
| n-butyl acetate                          | 2.3    | -          | low       |
| ethyl 3-ethoxypropionate                 | 1.47   | -          | low       |
| Solvent naphtha (petroleum), light arom. | -      | 10 to 2500 | high      |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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### 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 nonrecyclable 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.

### **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.

|                               | DOT<br>Classification | TDG<br>Classification | Mexico<br>Classification | IMDG   | IATA   |
|-------------------------------|-----------------------|-----------------------|--------------------------|--------|--------|
| UN number                     | UN1263                | UN1263                | UN1263                   | UN1263 | UN1263 |
| UN proper shipping name       | PAINT                 | PAINT                 | PAINT                    | PAINT  | PAINT  |
| Transport<br>hazard class(es) | 3                     | 3                     | 3                        | 3      | 3      |
| Packing group                 | II                    | II                    | II                       | II     | II     |
| 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 Delayed (chronic) health hazard

#### **SARA 313**

|                                 | Product name          | CAS number | %     |
|---------------------------------|-----------------------|------------|-------|
| Form R - Reporting requirements | 2-butoxyethyl acetate | 112-07-2   | 1 - 5 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

#### **International lists**

#### **National inventory**

Australia : At least one component is not listed.

Canada : At least one component is not listed in DSL but all such components are listed in NDSL.

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

#### Section 16. Other information

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



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

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 : 6 MSDS # : 002794

0018

**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**

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.