

## SAFETY DATA SHEET

Hardener 92245

### Section 1. Identification

**GHS product identifier** : Hardener 92245  
**SDS code** : A45386

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

| Identified uses      |
|----------------------|
| Industrial use       |
| Uses advised against |
| Consumer use         |

**Manufacturer** : Akzo Nobel Coatings, Inc.  
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 Waukegan, IL 60085  
 USA  
 Tel. 1 847 623 4200  
 Email: customer.service@akzonobel.com  
 Akzo Nobel Coatings Ltd.  
 110 Woodbine Downs Blvd.  
 Unit #4 Etobicoke, Ontario  
 Canada M9W 5S6  
 +1 (800) 618-1010

**Importer** : Cía. Mexicana de Pinturas International  
 S.A. de C.V., Carretera Anillo Periférico,  
 No Ext 205, No Interior A, Colonia HDA S JOSE, Garcia, Garcia, CP 66000, Nuevo Leon.  
 RFC: ANA9510267C4

**Emergency telephone number (with hours of operation)** : CHEMTREC +1 (800) 424-9300 (Inside the US)  
 CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)

### 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 4  
 SKIN CORROSION - Category 1C  
 SERIOUS EYE DAMAGE - Category 1  
 SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 2  
 TOXIC TO REPRODUCTION (Unborn child) - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

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## Section 2. Hazards identification

### GHS label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: H228 Highly flammable liquid and vapor.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H360D Suspected of damaging the unborn child.  
 H373 Suspected of causing cancer.  
 H410 May cause drowsiness or dizziness.  
 H411 May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

#### Prevention

: P201 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear protective clothing. 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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### Response

: P501 Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing 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. Immediately call a POISON CENTER or physician.

#### Storage

: P233 Store locked up.

#### Disposal

: P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Hazards not otherwise classified

: None known.

## Section 3. Composition/information on ingredients

#### Substance/mixture

: Mixture

| Ingredient name                                      | %         | CAS number  |
|--|-----------|-------------|
| toluene  | ≥25 - ≤50 | 108-88-3    |
| benzyl alcohol                                       | ≤14       | 100-51-6    |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine         | ≤9.8      | 1760-24-3   |
| Solvent naphtha (petroleum), light arom.             | ≤10       | 64742-95-6  |
| m-phenylenebis(methylamine)                          | <5        | 1477-55-0   |
| 2,4,6-tris(dimethylaminomethyl)phenol                | ≤3        | 90-72-2     |
| 1,2,4-trimethylbenzene                               | ≤3        | 95-63-6     |
| Formaldehyde, polymer with benzenamine, hydrogenated | ≤3        | 135108-88-2 |
| cumene   | ≤0.3      | 98-82-8     |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

## Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. 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. 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** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a 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 damage.
- Inhalation** :  Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

## Section 4. First aid measures

- Inhalation** : Adverse symptoms may include the following:  
 nausea or vomiting  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 unconsciousness  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

### 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 media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

## Section 7. Handling and storage

**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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name   | Exposure limits  |
|---|--|
| toluene   | <p><b>NIOSH REL (United States, 10/2016).</b><br/>           STEL: 560 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 375 mg/m<sup>3</sup> 10 hours.<br/>           TWA: 100 ppm 10 hours.</p> <p><b>OSHA PEL Z2 (United States, 2/2013).</b><br/>           AMP: 500 ppm 10 minutes.<br/>           CEIL: 300 ppm<br/>           TWA: 200 ppm 8 hours.</p> <p><b>ACGIH TLV (United States, 3/2019).</b><br/>           TWA: 20 ppm 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/> <b>Notes: See Table Z-2.</b><br/>           STEL: 560 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 150 ppm 15 minutes.<br/>           TWA: 375 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 100 ppm 8 hours.</p> |
| benzyl alcohol  | <p><b>AIHA WEEL (United States, 7/2018).</b><br/>           TWA: 10 ppm 8 hours.</p>   |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine                | None.  |
| Solvent naphtha (petroleum), light arom.                    | None.  |
| m-phenylenebis(methylamine)                                 | <p><b>ACGIH TLV (United States, 3/2019).</b><br/> <b>Absorbed through skin.</b><br/>           C: 0.018 ppm<br/> <b>OSHA PEL 1989 (United States, 3/1989).</b><br/> <b>Absorbed through skin.</b><br/>           CEIL: 0.1 mg/m<sup>3</sup><br/> <b>NIOSH REL (United States, 10/2016).</b><br/> <b>Absorbed through skin.</b><br/>           CEIL: 0.1 mg/m<sup>3</sup></p>   |
| 2,4,6-tris(dimethylaminomethyl)phenol                       | None.  |
| 1,2,4-trimethylbenzene                                      | <p><b>ACGIH TLV (United States, 3/2019).</b><br/>           TWA: 123 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 25 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 10/2016).</b><br/>           TWA: 125 mg/m<sup>3</sup> 10 hours.<br/>           TWA: 25 ppm 10 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>           TWA: 125 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 25 ppm 8 hours.</p>  |
| Formaldehyde, polymer with benzenamine, hydrogenated cumene | <p>None.</p> <p><b>ACGIH TLV (United States, 3/2019). Notes: 1999 Adoption.</b><br/>           TWA: 50 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 10/2016).</b></p>  |



## Section 8. Exposure controls/personal protection

### Absorbed through skin.

TWA: 245 mg/m<sup>3</sup> 10 hours.

TWA: 50 ppm 10 hours.

### OSHA PEL (United States, 5/2018).

### Absorbed through skin.

TWA: 245 mg/m<sup>3</sup> 8 hours.

TWA: 50 ppm 8 hours.

### OSHA PEL 1989 (United States, 3/1989).

### Absorbed through skin.

TWA: 245 mg/m<sup>3</sup> 8 hours.

TWA: 50 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.

### 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

|   |  |                         |                                 |
|---|--|-------------------------|---------------------------------|
| <b>Physical state</b>                               | : Liquid.  |                         |                                 |
| <b>Color</b>  | : Not available.   |                         |                                 |
| <b>Odor</b>   | : Typical.   |                         |                                 |
| <b>Odor threshold</b>                               | : Not available.   |                         |                                 |
| <b>pH</b>   | : Not available.   |                         |                                 |
| <b>Melting/freezing point</b>                       | : Not available.   |                         |                                 |
| <b>Boiling point</b>                                | : 110°C (230°F)  |                         |                                 |
| <b>boiling range</b>                                | : Not available.   |                         |                                 |
| <b>Flash point</b>                                  | : Closed cup: 9°C (48.2°F)                                       |                         |                                 |
| <b>Evaporation rate</b>                             | : Not available.   |                         |                                 |
| <b>Flammability (solid, gas)</b>                    | : Not available.   |                         |                                 |
| <b>Upper/lower flammability or explosive limits</b> | : Not determined.  |                         |                                 |
|   | : Not determined.  |                         |                                 |
| <b>Vapor pressure</b>                               | : Not available.   |                         |                                 |
| <b>Vapor density</b>                                | : Not available.   |                         |                                 |
| <b>Relative density</b>                             | : 0.948  |                         |                                 |
| <b>Density</b>                                      | 7.91 lbs/gal   | 0.948 g/cm <sup>3</sup> |                                 |
| <b>Solubility</b>                                   | : Not available.   |                         |                                 |
| <b>Solubility in water</b>                          | : Not available.   |                         |                                 |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.   |                         |                                 |
| <b>Auto-ignition temperature</b>                    | : Not available.   |                         |                                 |
| <b>Decomposition temperature</b>                    | : Not available.   |                         |                                 |
| <b>Viscosity</b>                                    | : Kinematic (room temperature): 0.42 cm <sup>2</sup> /s (42 cSt) |                         |                                 |
| <b>Weight Volatiles</b>                             | : 65.53% (w/w)   |                         |                                 |
| <b>Volume Volatiles</b>                             | : 69.01 % (v/v)  |                         |                                 |
| <b>Weight Solids</b>                                | : 34.47 % (w/w)  |                         |                                 |
| <b>Volume Solids</b>                                | : 30.99 % (v/v)  |                         |                                 |
| <b>Regulatory VOC</b>                               | 5.2 lbs/gal  | 621 g/l                 | minus water and exempt solvents |
| <b>VOC Actual</b>                                   | 5.2 lbs/gal  | 621 g/l                 |                                 |

## Section 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>Chemical stability</b>                 | : The product is stable.  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>Conditions to avoid</b>                | : 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. |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidizing materials   |



## Section 10. Stability and reactivity

**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                       | Result                            | Species               | Dose                    | Exposure  |
|---|-----------------------------------|-----------------------|-------------------------|-----------|
| Toluene                                       | LC50 Inhalation Gas.              | Mouse                 | 400 ppm                 | 24 hours  |
|   | LC50 Inhalation Vapor             | Mouse                 | 30000 mg/m <sup>3</sup> | 2 hours   |
|   | LC50 Inhalation Vapor             | Mouse                 | 19900 mg/m <sup>3</sup> | 7 hours   |
|   | LC50 Inhalation Vapor             | Rat                   | 49 g/m <sup>3</sup>     | 4 hours   |
|   | LD50 Dermal                       | Rabbit                | 14100 uL/kg             | -         |
|   | LD50 Intraperitoneal              | Guinea pig            | 500 mg/kg               | -         |
|   | LD50 Intraperitoneal              | Mouse                 | 59 mg/kg                | -         |
|   | LD50 Intraperitoneal              | Rat                   | 1332 mg/kg              | -         |
|   | LD50 Intravenous                  | Rat                   | 1960 mg/kg              | -         |
|   | LD50 Oral                         | Rat                   | 636 mg/kg               | -         |
|   | LD50 Route of exposure unreported | Mouse                 | 2 g/kg                  | -         |
|   | LD50 Route of exposure unreported | Rat                   | 6900 mg/kg              | -         |
|   | LD50 Subcutaneous                 | Mouse                 | 2250 mg/kg              | -         |
|   | benzyl alcohol                    | LC50 Inhalation Vapor | Rat                     | 1000 ppm  |
| LD50 Dermal                                   |                                   | Rabbit                | 2000 mg/kg              | -         |
| LD50 Intra-arterial                           |                                   | Rat                   | 441 mg/kg               | -         |
| LD50 Intraperitoneal                          |                                   | Mouse                 | 650 mg/kg               | -         |
| LD50 Intraperitoneal                          |                                   | Rat                   | 400 mg/kg               | -         |
| LD50 Intravenous                              |                                   | Mouse                 | 324 mg/kg               | -         |
| LD50 Intravenous                              |                                   | Rat                   | 53 mg/kg                | -         |
| LD50 Oral                                     |                                   | Guinea pig            | 2500 mg/kg              | -         |
| LD50 Oral                                     |                                   | Guinea pig            | 2500 mg/kg              | -         |
| LD50 Oral                                     |                                   | Mouse                 | 1360 mg/kg              | -         |
| LD50 Oral                                     |                                   | Mouse                 | 1360 mg/kg              | -         |
| LD50 Oral                                     |                                   | Rabbit                | 1040 mg/kg              | -         |
| LD50 Oral                                     |                                   | Rabbit                | 1040 mg/kg              | -         |
| LD50 Oral                                     |                                   | Rat                   | 1.5 mL/kg               | -         |
| LD50 Oral                                     |                                   | Rat                   | 1230 mg/kg              | -         |
| LD50 Oral                                     |                                   | Rat                   | 1230 mg/kg              | -         |
| LD50 Oral                                     |                                   | Rat                   | 1660 mg/kg              | -         |
| N-(3-(trimethoxysilyl)propyl) ethylenediamine |                                   | LD50 Intravenous      | Mouse                   | 180 mg/kg |
|   | LD50 Oral                         | Rat                   | 2413 mg/kg              | -         |
| Solvent naphtha (petroleum), light arom.      | LD50 Oral                         | Rat                   | 7460 uL/kg              | -         |
|   | LD50 Oral                         | Rat                   | 8400 mg/kg              | -         |
|   | LD50 Oral                         | Rat                   | 8400 mg/kg              | -         |
| m-phenylenebis (methylamine)                  | LC50 Inhalation Gas.              | Rat                   | 700 ppm                 | 1 hours   |
|   | LD50 Dermal                       | Rabbit                | 2 g/kg                  | -         |
|   | LD50 Oral                         | Rat                   | 930 mg/kg               | -         |
| 2,4,6-tris (dimethylaminomethyl)phenol        | LD50 Dermal                       | Rat                   | 1280 mg/kg              | -         |
|   | LD50 Oral                         | Rat                   | 1200 mg/kg              | -         |
|   | LD50 Oral                         | Rat                   | 1673 mg/kg              | -         |
| 1,2,4-trimethylbenzene                        | LD50 Oral                         | Rat                   | 2169 mg/kg              | -         |
|   | LC50 Inhalation Vapor             | Rat                   | 18000 mg/m <sup>3</sup> | 4 hours   |
|   | LD50 Oral                         | Mouse                 | 6900 mg/kg              | -         |
| cumene  | LD50 Oral                         | Rat                   | 5 g/kg                  | -         |
|   | LC50 Inhalation Vapor             | Mouse                 | 15300 mg/m <sup>3</sup> | 2 hours   |
|   | LC50 Inhalation Vapor             | Mouse                 | 10 g/m <sup>3</sup>     | 7 hours   |

## Section 11. Toxicological information

|  |                       |        |                         |         |
|--|-----------------------|--------|-------------------------|---------|
|  | LC50 Inhalation Vapor | Mouse  | 10000 mg/m <sup>3</sup> | 7 hours |
|  | LC50 Inhalation Vapor | Rat    | 39000 mg/m <sup>3</sup> | 4 hours |
|  | LD50 Dermal           | Rabbit | 12300 uL/kg             | -       |
|  | LD50 Oral             | Mouse  | 12750 mg/kg             | -       |
|  | LD50 Oral             | Rat    | 2.9 g/kg                | -       |
|  | LD50 Oral             | Rat    | 1400 mg/kg              | -       |

### Irritation/Corrosion

| Product/ingredient name                       | Result                   | Species | Score | Exposure              | Observation |
|---|--------------------------|---------|-------|-----------------------|-------------|
| toluene                                       | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes<br>100 mg | -           |
|   | Eyes - Mild irritant     | Rabbit  | -     | 870 ug                | -           |
|   | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2<br>mg      | -           |
|   | Skin - Mild irritant     | Rabbit  | -     | 435 mg                | -           |
| benzyl alcohol                                | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20<br>mg     | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 500 mg                | -           |
| N-(3-(trimethoxysilyl)propyl) ethylenediamine | Skin - Moderate irritant | Rabbit  | -     | 24 hours 100<br>mg    | -           |
|   | Eyes - Severe irritant   | Rabbit  | -     | 15 mg                 | -           |
| Solvent naphtha (petroleum), light arom.      | Skin - Mild irritant     | Rabbit  | -     | 500 mg                | -           |
|   | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 100<br>UI    | -           |
| m-phenylenebis (methylamine)                  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 50<br>ug     | -           |
|   | Skin - Severe irritant   | Rabbit  | -     | 24 hours 750<br>ug    | -           |
| 2,4,6-tris (dimethylaminomethyl)phenol        | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 50<br>ug     | -           |
|   | Skin - Mild irritant     | Rat     | -     | 0.025 MI              | -           |
|   | Skin - Severe irritant   | Rat     | -     | 0.25 MI               | -           |
|   | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2<br>mg      | -           |
| cumene  | Skin - Severe irritant   | Rabbit  | -     | 24 hours 500<br>UI    | -           |
|   | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500<br>mg    | -           |
|   | Eyes - Mild irritant     | Rabbit  | -     | 86 mg                 | -           |
|   | Skin - Mild irritant     | Rabbit  | -     | 24 hours 10<br>mg     | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 24 hours 100<br>mg    | -           |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP  |
|-------------------------|------|------|--|
| toluene                 | -    | 3    | -  |
| cumene                  | -    | 2B   | Reasonably anticipated to be a human carcinogen. |

### Reproductive toxicity

Not available.

## Section 11. Toxicological information

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name  | Category                 | Route of exposure                  | Target organs  |
|---|--------------------------|------------------------------------|--|
| toluene<br>Solvent naphtha (petroleum), light arom. | Category 3<br>Category 3 | Not applicable.<br>Not applicable. | Narcotic effects<br>Respiratory tract irritation and<br>Narcotic effects |
| 1,2,4-trimethylbenzene                              | Category 3               | Not applicable.                    | Respiratory tract irritation   |
| cumene  | Category 3               | Not applicable.                    | Respiratory tract irritation   |

### Specific target organ toxicity (repeated exposure)

| Name  | Category                 | Route of exposure      | Target organs                    |
|---|--------------------------|------------------------|----------------------------------|
| toluene<br>Formaldehyde, polymer with benzenamine, hydrogenated | Category 2<br>Category 2 | Not determined<br>Oral | Not determined<br>Not determined |

### Aspiration hazard

| Name  | Result   |
|---|--|
| toluene<br>Solvent naphtha (petroleum), light arom.<br>cumene | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** :  Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Can cause central nervous system (CNS) depression.

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

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

## Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
 stomach pains  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

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

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : Suspected of damaging the unborn child.
- 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    |
|--|--------------|
| <input checked="" type="checkbox"/> Oral | 1218.3 mg/kg |
| Inhalation (vapors)                      | 423.6 mg/l   |
| Inhalation (dusts and mists)             | 6.203 mg/l   |

## Section 12. Ecological information

### Toxicity

## Section 12. Ecological information

| Product/ingredient name            | Result                             | Species  | Exposure                   |
|------------------------------------|------------------------------------|--|----------------------------|
| Toluene                            | Acute EC50 12500 µg/l Fresh water  | Algae - Pseudokirchneriella subcapitata                                | 72 hours                   |
|                                    | Acute EC50 16500 µg/l Fresh water  | Crustaceans - Gammarus pseudolimnaeus - Adult                          | 48 hours                   |
|                                    | Acute EC50 11600 µg/l Fresh water  | Crustaceans - Gammarus pseudolimnaeus - Adult                          | 48 hours                   |
|                                    | Acute EC50 6.88 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                      | 48 hours                   |
|                                    | Acute EC50 6.56 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                      | 48 hours                   |
|                                    | Acute EC50 19600 µg/l Fresh water  | Daphnia - Daphnia magna - Larvae                                       | 48 hours                   |
|                                    | Acute EC50 6000 µg/l Fresh water   | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)    | 48 hours                   |
|                                    | Acute EC50 6780 µg/l Fresh water   | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours                   |
|                                    | Acute LC50 15.5 ppm Marine water   | Crustaceans - Palaemonetes pugio - Adult                               | 48 hours                   |
|                                    | Acute LC50 15500 µg/l Marine water | Crustaceans - Palaemonetes pugio                                       | 48 hours                   |
|                                    | Acute LC50 56.3 ppm Marine water   | Crustaceans - Americamysis bahia                                       | 48 hours                   |
|                                    | Acute LC50 86.3 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                      | 48 hours                   |
|                                    | Acute LC50 5500 µg/l Fresh water   | Fish - Oncorhynchus kisutch - Fry                                      | 96 hours                   |
|                                    | Acute LC50 6410 µg/l Marine water  | Fish - Oncorhynchus gorboscha - Fry                                    | 96 hours                   |
|                                    | benzyl alcohol                     | Acute LC50 5800 µg/l Fresh water                                       | Fish - Oncorhynchus mykiss |
| Acute LC50 6780 µg/l Fresh water   |                                    | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours                   |
| Chronic NOEC 2 mg/l Fresh water    |                                    | Daphnia - Daphnia magna  | 21 days                    |
| Chronic NOEC 1000 µg/l Fresh water |                                    | Daphnia - Daphnia magna  | 21 days                    |
| Acute LC50 10000 µg/l Fresh water  |                                    | Fish - Lepomis macrochirus   | 96 hours                   |
| 1,2,4-trimethylbenzene             | Acute LC50 460000 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours                   |
|                                    | Acute LC50 15000 µg/l Marine water | Fish - Menidia beryllina   | 96 hours                   |
|                                    | Acute LC50 17000 µg/l Marine water | Crustaceans - Cancer magister - Zoea                                   | 48 hours                   |
|                                    | Acute LC50 4910 µg/l Marine water  | Crustaceans - Elasmopus pecteniscrus - Adult                           | 48 hours                   |
|                                    | Acute LC50 7720 µg/l Fresh water   | Fish - Pimephales promelas   | 96 hours                   |
| cumene                             | Acute LC50 22.4 mg/l Fresh water   | Fish - Tilapia zillii  | 96 hours                   |
|                                    | Acute EC50 2600 µg/l Fresh water   | Algae - Pseudokirchneriella subcapitata                                | 72 hours                   |
|                                    | Acute EC50 7.4 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours                   |
|                                    | Acute EC50 7.5 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours                   |
|                                    | Acute EC50 10.6 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                      | 48 hours                   |
|                                    | Acute EC50 11.2 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                      | 48 hours                   |
|                                    | Acute EC50 10.6 mg/l Fresh water   | Daphnia - Daphnia magna - Neonate                                      | 48 hours                   |
|                                    | Acute LC50 7.4 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours                   |
|                                    | Acute LC50 8 mg/l Marine water     | Crustaceans - Artemia sp. - Nauplii                                    | 48 hours                   |

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## Section 12. Ecological information

|  |                                  |   |          |
|--|----------------------------------|---|----------|
|  | Acute LC50 20.3 mg/l Fresh water | Nauplii<br>Daphnia - Daphnia magna -<br>Neonate | 48 hours |
|  | Acute LC50 20.3 mg/l Fresh water | Daphnia - Daphnia magna -<br>Neonate            | 48 hours |
|  | Acute LC50 6320 µg/l Fresh water | Fish - Pimephales promelas                      | 96 hours |
|  | Acute LC50 5100 µg/l Fresh water | Fish - Poecilia reticulata                      | 96 hours |
|  | Acute LC50 2700 µg/l Fresh water | Fish - Oncorhynchus mykiss                      | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name                                 | LogP <sub>ow</sub> | BCF        | Potential |
|---|--------------------|------------|-----------|
| Toluene   | 2.73               | 90         | low       |
| benzyl alcohol  | 0.87               | -          | low       |
| Solvent naphtha (petroleum),<br>light arom.             | -                  | 10 to 2500 | high      |
| m-phenylenebis(methylamine)                             | 0.18               | 2.69       | low       |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol               | 0.219              | -          | low       |
| 1,2,4-trimethylbenzene                                  | 3.63               | 243        | low       |
| Formaldehyde, polymer with<br>benzenamine, hydrogenated | -                  | 209 to 219 | low       |
| cumene  | 3.55               | 35.48      | 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.

## Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.



## Section 14. Transport information

|                            | DOT Classification   | TDG Classification  | Mexico Classification  | IMDG  | IATA   |
|----------------------------|--|---|--|---|--|
| UN number                  | UN3469   | UN3469  | UN3469   | UN3469  | UN3469   |
| UN proper shipping name    | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE   | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE  | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE   | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE  | PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE   |
| Transport hazard class(es) | 3 (8)<br>  | 3 (8)<br> <br> | 3 (8)<br>  | 3 (8)<br> <br> | 3 (8)<br>  |
| Packing group              | II   | II  | II   | II  | II   |
| Environmental hazards      | No.  | Yes.  | Yes. The environmentally hazardous substance mark is not required.   | Marine Pollutant (s): Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis (methylamine), N-(3-(trimethoxysilyl) propyl) ethylenediamine   | Yes. The environmentally hazardous substance mark is not required.   |

### Additional information

- DOT Classification** : **Reportable quantity** 2203.4 lbs / 1000.4 kg [278.76 gal / 1055.2 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).  
The marine pollutant mark is not required when transported by road or rail.
- IMDG** : **Emergency schedules** F-E, S-C  
The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user** : **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.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 5(a)2 final significant new use rules: No products found.  
 TSCA 5(e) substance consent order: No products found.  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 United States inventory (TSCA 8b): All components are listed or exempted.  
 Clean Water Act (CWA) 307: toluene  
 Clean Water Act (CWA) 311: toluene; xylene

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Listed

### SARA 302/304

#### Composition/information on ingredients

| Name                    | % | EHS | SARA 302 TPQ |           | SARA 304 RQ |           |
|-------------------------|---|-----|--------------|-----------|-------------|-----------|
|                         |   |     | (lbs)        | (gallons) | (lbs)       | (gallons) |
| No products were found. |   |     |              |           |             |           |

### SARA 311/312

**Classification** : **FLAMMABLE LIQUIDS - Category 2**  
 ACUTE TOXICITY (oral) - Category 4  
 SKIN CORROSION - Category 1C  
 SERIOUS EYE DAMAGE - Category 1  
 SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 2  
 TOXIC TO REPRODUCTION (Unborn child) - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### Composition/information on ingredients

| Name  | %         | Classification   |
|---|-----------|--|
| toluene                                       | ≥25 - ≤50 | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>TOXIC TO REPRODUCTION (Unborn child) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| benzyl alcohol                                | ≤14       | ASPIRATION HAZARD - Category 1<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2A   |
| N-(3-(trimethoxysilyl)propyl) ethylenediamine | ≤9.8      | ACUTE TOXICITY (inhalation) - Category 4<br>SERIOUS EYE DAMAGE - Category 1<br>SKIN SENSITIZATION - Category 1   |
| Solvent naphtha                               | ≤10       | FLAMMABLE LIQUIDS - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)   |

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## Section 15. Regulatory information

|  |      |   |
|--|------|---|
| m-phenylenebis(methylamine)                          | <5   | (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN CORROSION - Category 1B<br>SERIOUS EYE DAMAGE - Category 1<br>SKIN SENSITIZATION - Category 1B                            |
| 2,4,6-tris(dimethylaminomethyl) phenol               | ≤3   | ACUTE TOXICITY (oral) - Category 4<br>SKIN CORROSION - Category 1C<br>SERIOUS EYE DAMAGE - Category 1<br>FLAMMABLE LIQUIDS - Category 3   |
| 1,2,4-trimethylbenzene                               | ≤3   | ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  |
| Formaldehyde, polymer with benzenamine, hydrogenated | ≤3   | ACUTE TOXICITY (oral) - Category 4<br>SKIN CORROSION - Category 1C<br>SERIOUS EYE DAMAGE - Category 1<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (oral) - Category 2 |
| cumene   | ≤0.3 | FLAMMABLE LIQUIDS - Category 3<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>ASPIRATION HAZARD - Category 1  |

### SARA 313

|  | Product name           | CAS number | %         |
|--|------------------------|------------|-----------|
| <b>Form R - Reporting requirements</b> | toluene                | 108-88-3   | ≥25 - ≤50 |
|  | 1,2,4-trimethylbenzene | 95-63-6    | ≤3        |
| <b>Supplier notification</b>           | toluene                | 108-88-3   | ≥25 - ≤50 |
|  | 1,2,4-trimethylbenzene | 95-63-6    | ≤3        |

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.

### State regulations

#### Massachusetts

: The following components are listed: TOLUENE; METHYLBENZENE; BENZYL ALCOHOL; M-XYLENE-ALPHA,ALPHA'-DIAMINE; MXDA; PSEUDOCUMENE

#### New York

: The following components are listed: Toluene; Cumene; Benzene, 1-methylethyl-

#### New Jersey

: The following components are listed: TOLUENE; BENZENE, METHYL-; m-XYLENE alpha, alpha'-DIAMINE; 1,3-BENZENEDIMETHANAMINE; PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE; CUMENE; BENZENE, (1-METHYLETHYL)-

#### Pennsylvania

: The following components are listed: BENZENE, METHYL-; BENZENEMETHANOL; 1,3-BENZENED, IMETHANAMINE; PSEUDOCUMENE; BENZENE, (1-METHYLETHYL)-

### California Prop. 65

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Ingredient name | No significant risk level | Maximum acceptable dosage level |
|-----------------|---------------------------|---------------------------------|
| toluene         | -                         | Yes.                            |
| cumene          | -                         | -                               |
| methanol        | -                         | Yes.                            |

### Inventory list

|                                |              |         |        |
|--------------------------------|--------------|---------|--------|
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| Date of previous issue         | : 12/12/2022 |         | 17/19  |

## Section 15. Regulatory information

|                          |   |
|--------------------------|---|
| <b>Australia</b>         | : All components are listed or exempted.  |
| <b>Canada</b>            | : All components are listed or exempted.  |
| <b>China</b>             | : All components are listed or exempted.  |
| <b>Europe</b>            | : All components are listed or exempted.  |
| <b>Japan</b>             | : <b>Japan inventory (ENCS)</b> : All components are listed or exempted.<br><b>Japan inventory (ISHL)</b> : At least one component is not listed. |
| <b>Malaysia</b>          | : At least one component is not listed.   |
| <b>New Zealand</b>       | : All components are listed or exempted.  |
| <b>Philippines</b>       | : All components are listed or exempted.  |
| <b>Republic of Korea</b> | : All components are listed or exempted.  |
| <b>Taiwan</b>            | : All components are listed or exempted.  |
| <b>Thailand</b>          | : At least one component is not listed.   |
| <b>Turkey</b>            | : At least one component is not listed.   |
| <b>Viet Nam</b>          | : At least one component is not listed.   |

## Section 16. Other information

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

|                  |   |   |
|------------------|---|---|
| Health           | * | 3 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |
|                  |   |   |

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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### Procedure used to derive the classification

| Classification   | Justification         |
|--|-----------------------|
| FLAMMABLE LIQUIDS - Category 2   | On basis of test data |
| ACUTE TOXICITY (oral) - Category 4   | Calculation method    |
| SKIN CORROSION - Category 1C   | Calculation method    |
| SERIOUS EYE DAMAGE - Category 1  | Calculation method    |
| SKIN SENSITIZATION - Category 1  | Calculation method    |
| CARCINOGENICITY - Category 2   | Calculation method    |
| TOXIC TO REPRODUCTION (Unborn child) - Category 2                                | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2                  | Calculation method    |

### History

|  |                    |
|--|--------------------|
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## Section 16. Other information

**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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

▣ Indicates information that has changed from previously issued version.

### Notice to reader

FOR PROFESSIONAL USE ONLY

**IMPORTANT NOTE** The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws. Any person using this product must determine for themselves, by preliminary tests or otherwise, the suitability of this product for their purposes. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. The application, use and processing of AkzoNobel's products and the products manufactured by Buyer on the basis of AkzoNobel's technical advice are beyond AkzoNobel's control and, therefore, entirely Buyer's own responsibility. AkzoNobel makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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