

# SAFETY DATA SHEET

## Interbond 2340UPC Part B

### Section 1. Identification

Interbond 2340UPC Part B : GHS product identifier  
 HTA346 : Product code

| Identified uses                               |        |
|-----------------------------------------------|--------|
| Professional application of coatings and inks |        |
| Uses advised against                          | Reason |
| All Other Uses                                |        |

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 PO Box 37  
 Dammam 31411  
 Saudi Arabia

Tel: +966 3 812 1044 Fax: +966 3 812 1169

+966 3 812 1044 : Emergency telephone number (with hours of operation)  
 +966 55 388 0087 : National advisory body/ Poison Centre (For use only by licensed medical professionals.)  
 sdsfellinguk@akzonobel.com : e-mail address of person responsible for this SDS

### Section 2. Hazards identification

FLAMMABLE LIQUIDS - Category 3 : Classification of the substance or mixture  
 ACUTE TOXICITY (oral) - Category 5  
 ACUTE TOXICITY (dermal) - Category 5  
 SKIN CORROSION/IRRITATION - Category 2  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 RESPIRATORY SENSITIZATION - Category 1  
 SKIN SENSITIZATION - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

#### GHS label elements



: Hazard pictograms

Danger

: Signal word

## Section 2. Hazards identification

Flammable liquid and vapour. : **Hazard statements**  
 May be harmful if swallowed or in contact with skin.  
 Causes serious eye damage.  
 Causes skin irritation.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause an allergic skin reaction.  
 May cause respiratory irritation.  
 May cause damage to organs through prolonged or repeated exposure. (hearing organs)

### Precautionary statements

Wear protective gloves. Wear eye or face protection. Wear respiratory protection. : **Prevention**  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
 No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapour. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. : **Response**

Store locked up. Store in a well-ventilated place. Keep cool. : **Storage**

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

Wear appropriate respirator when ventilation is inadequate. : **Supplemental label elements**

None known. : **Other hazards which do not result in classification**

## Section 3. Composition/information on ingredients

Mixture : **Substance/mixture**

| Classification                                                                                                                                       | CAS number | % by weight | Ingredient name |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------------|
| Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335<br>Asp. Tox. 1, H304 | 1330-20-7  | ≥10 - <25   | xylene          |
| Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336                            | 71-36-3    | ≥10 - <20   | butan-1-ol      |
| Flam. Liq. 2, H225<br>Acute Tox. 4, H332                                                                                                             | 100-41-4   | ≥5 - ≤10    | ethylbenzene    |

### Section 3. Composition/information on ingredients

|                                                                                                                                                          |          |    |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|-----------------|
| Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335<br>STOT RE 2, H373 (hearing organs)<br>Asp. Tox. 1, H304                                   |          |    |                 |
| Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Acute Tox. 4, H332<br>Skin Corr. 1B, H314<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317 | 107-15-3 | <1 | ethylenediamine |

There are no 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

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. : **Eye contact**

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. Seek medical attention. 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. In the event of any complaints or symptoms, avoid further exposure. : **Inhalation**

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. : **Skin contact**

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. : **Ingestion**

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

#### Potential acute health effects

Causes serious eye damage.

: **Eye contact**

## Section 4. First aid measures

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. : **Inhalation**

May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. : **Skin contact**

May be harmful if swallowed. Irritating to mouth, throat and stomach. : **Ingestion**

### Over-exposure signs/symptoms

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

Adverse symptoms may include the following: : **Inhalation**  
 respiratory tract irritation  
 coughing  
 wheezing and breathing difficulties  
 asthma  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 muscle weakness  
 unconsciousness

Adverse symptoms may include the following: : **Skin contact**  
 pain or irritation  
 redness  
 blistering may occur

Adverse symptoms may include the following: : **Ingestion**  
 stomach pains

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

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. : **Notes to physician**

No specific treatment. : **Specific treatments**

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. : **Protection of first-aiders**

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

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

Do not use water jet. : **Unsuitable extinguishing media**

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

Decomposition products may include the following materials: : **Hazardous thermal decomposition products**  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides

## Section 5. Firefighting measures

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 actions 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. : **Special protective equipment for fire-fighters**

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. : **For non-emergency personnel**

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". : **For emergency responders**

Avoid dispersal of spilt 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). : **Environmental precautions**

### Methods and material for containment and cleaning up

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. : **Small spill**

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. : **Large spill**

## Section 7. Handling and storage

### Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour 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. : **Protective measures**

## Section 7. Handling and storage

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.

: **Advice on general occupational hygiene**

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. Vapours are heavier than air and may spread along floors. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

: **Conditions for safe storage, including any incompatibilities**

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Exposure limits                                                                                                                                                                   | Ingredient name |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>ACGIH TLV (United States, 3/2017).</b><br>STEL: 651 mg/m <sup>3</sup> 15 minutes.<br>STEL: 150 ppm 15 minutes.<br>TWA: 434 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours. | xylene          |
| <b>ACGIH TLV (United States, 3/2015).</b><br>TWA: 20 ppm 8 hours.                                                                                                                 | butan-1-ol      |
| <b>ACGIH TLV (United States, 3/2015).</b><br>TWA: 20 ppm 8 hours.                                                                                                                 | ethylbenzene    |
| <b>ACGIH TLV (United States, 3/2015).</b><br><b>Absorbed through skin.</b><br>TWA: 10 ppm 8 hours.                                                                                | ethylenediamine |

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

: **Appropriate engineering 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.

: **Environmental exposure controls**

### Individual protection 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.

: **Hygiene measures**

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. Use eye protection according to EN 166, designed to protect against liquid splashes. 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.

: **Eye/face protection**

## Section 8. Exposure controls/personal protection

### Skin protection

Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton® or Nitrile gloves. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

: **Hand 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. EN ISO 13688 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.

: **Body 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.

: **Other skin protection**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary according to EN529. 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. Recommended : multi-gas/vapour and particulate filter

: **Respiratory protection**

## Section 9. Physical and chemical properties

### Appearance

Liquid.

: **Physical state**

Amber.

: **Colour**

Amine-like.

: **Odour**

Not available.

: **Odour threshold**

Not applicable.

: **pH**

Not available.

: **Melting point**

Lowest known value: 119°C (246.2°F) (butan-1-ol).

: **Boiling point**

Closed cup: 26°C (78.8°F)

: **Flash point**

Not available.

: **Evaporation rate**

Not available.

: **Flammability (solid, gas)**

Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)

: **Lower and upper explosive (flammable) limits**

Not available.

: **Vapour pressure**

Not available.

: **Vapour density**

0.94

: **Relative density**

Insoluble in the following materials: cold water.

: **Solubility**

Not available.

: **Partition coefficient: n-octanol/water**

Not available.

: **Auto-ignition temperature**

Not available.

: **Decomposition temperature**

Kinematic (room temperature): 794 mm<sup>2</sup>/s (794 cSt)

: **Viscosity**

## Section 10. Stability and reactivity

|                                                                                                                                                                         |                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| No specific test data related to reactivity available for this product or its ingredients.                                                                              | : <b>Reactivity</b>                         |
| The product is stable.                                                                                                                                                  | : <b>Chemical stability</b>                 |
| Under normal conditions of storage and use, hazardous reactions will not occur.                                                                                         | : <b>Possibility of hazardous reactions</b> |
| Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. | : <b>Conditions to avoid</b>                |
| Reactive or incompatible with the following materials:<br>oxidizing materials                                                                                           | : <b>Incompatible materials</b>             |
| Under normal conditions of storage and use, hazardous decomposition products should not be produced.                                                                    | : <b>Hazardous decomposition products</b>   |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Exposure | Dose        | Species | Result                 | Product/ingredient name |
|----------|-------------|---------|------------------------|-------------------------|
| 4 hours  | 5000 ppm    | Rat     | LC50 Inhalation Gas.   | xylene                  |
| -        | 4300 mg/kg  | Rat     | LD50 Oral              |                         |
| 4 hours  | 24 mg/l     | Rat     | LC50 Inhalation Vapour | butan-1-ol              |
| -        | 3400 mg/kg  | Rabbit  | LD50 Dermal            |                         |
| 4 hours  | 4000 ppm    | Rabbit  | LC50 Inhalation Gas.   | ethylbenzene            |
| -        | 17800 mg/kg | Rabbit  | LD50 Dermal            |                         |
| -        | 3500 mg/kg  | Rat     | LD50 Oral              |                         |
| -        | 1200 mg/kg  | Rat     | LD50 Oral              | ethylenediamine         |

#### Irritation/Corrosion

| Observation | Exposure                | Score | Species | Result                   | Product/ingredient name |
|-------------|-------------------------|-------|---------|--------------------------|-------------------------|
| -           | 87 milligrams           | -     | Rabbit  | Eyes - Mild irritant     | xylene                  |
| -           | 24 hours 5 milligrams   | -     | Rabbit  | Eyes - Severe irritant   |                         |
| -           | 8 hours 60 microliters  | -     | Rat     | Skin - Mild irritant     |                         |
| -           | 24 hours 500 milligrams | -     | Rabbit  | Skin - Moderate irritant |                         |
| -           | 100 Percent             | -     | Rabbit  | Skin - Moderate irritant |                         |
| -           | 24 hours 2 milligrams   | -     | Rabbit  | Eyes - Severe irritant   | butan-1-ol              |
| -           | 0.005 Milliliters       | -     | Rabbit  | Eyes - Severe irritant   |                         |
| -           | 24 hours 20 milligrams  | -     | Rabbit  | Skin - Moderate irritant |                         |
| -           | 500 milligrams          | -     | Rabbit  | Eyes - Severe irritant   | ethylbenzene            |
| -           | 24 hours 15 milligrams  | -     | Rabbit  | Skin - Mild irritant     |                         |
| -           | 24 hours 750 Micrograms | -     | Rabbit  | Eyes - Severe irritant   | ethylenediamine         |
| -           | 750 Micrograms          | -     | Rabbit  | Eyes - Severe irritant   |                         |
| -           | 450 milligrams          | -     | Rabbit  | Skin - Moderate irritant |                         |
| -           | 24 hours 10             | -     | Rabbit  | Skin - Severe irritant   |                         |



## Section 11. Toxicological information

|            |  |  |  |  |
|------------|--|--|--|--|
| milligrams |  |  |  |  |
|------------|--|--|--|--|

### Sensitisation

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Target organs                                     | Route of exposure | Category   | Name         |
|---------------------------------------------------|-------------------|------------|--------------|
| Respiratory tract irritation                      | Not applicable.   | Category 3 | xylene       |
| Respiratory tract irritation and Narcotic effects | Not applicable.   | Category 3 | butan-1-ol   |
| Respiratory tract irritation                      | Not applicable.   | Category 3 | ethylbenzene |

### Specific target organ toxicity (repeated exposure)

| Target organs  | Route of exposure | Category   | Name         |
|----------------|-------------------|------------|--------------|
| hearing organs | Not determined    | Category 2 | ethylbenzene |

### Aspiration hazard

| Result                         | Name         |
|--------------------------------|--------------|
| ASPIRATION HAZARD - Category 1 | xylene       |
| ASPIRATION HAZARD - Category 1 | ethylbenzene |

Not available.

: Information on likely routes of exposure

### Potential acute health effects

Causes serious eye damage.

: Eye contact

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

: Inhalation

May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

: Skin contact

May be harmful if swallowed. Irritating to mouth, throat and stomach.

: Ingestion

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

Adverse symptoms may include the following:

: Eye contact

pain  
watering  
redness

## Section 11. Toxicological information

Adverse symptoms may include the following:  
 respiratory tract irritation  
 coughing  
 wheezing and breathing difficulties  
 asthma  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 muscle weakness  
 unconsciousness

: **Inhalation**

Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur

: **Skin contact**

Adverse symptoms may include the following:  
 stomach pains

: **Ingestion**

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

Not available.

: **Potential immediate effects**

Not available.

: **Potential delayed effects**

#### Long term exposure

Not available.

: **Potential immediate effects**

Not available.

: **Potential delayed effects**

#### Potential chronic health effects

Not available.

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.

: **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**

### Numerical measures of toxicity

#### Acute toxicity estimates

| ATE value    | Route                |
|--------------|----------------------|
| 3617 mg/kg   | Oral                 |
| 4519.3 mg/kg | Dermal               |
| 20542.4 ppm  | Inhalation (gases)   |
| 208.5 mg/l   | Inhalation (vapours) |

## Section 12. Ecological information

### Toxicity

| Exposure | Species                                                                | Result                                   | Product/ingredient name |
|----------|------------------------------------------------------------------------|------------------------------------------|-------------------------|
| 48 hours | Crustaceans - Palaemonetes pugio                                       | Acute LC50 8500 µg/l Marine water        | xylene                  |
| 96 hours | Fish - Pimephales promelas                                             | Acute LC50 13400 µg/l Fresh water        | butan-1-ol              |
| 48 hours | Daphnia - Daphnia magna                                                | Acute EC50 1983 to 2072 mg/l Fresh water |                         |
| 96 hours | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | Acute LC50 1910 mg/l Fresh water         | ethylbenzene            |
| 96 hours | Algae - Pseudokirchneriella subcapitata                                | Acute EC50 3.6 mg/l Fresh water          |                         |
| 48 hours | Daphnia - Daphnia magna - Neonate                                      | Acute LC50 18.4 to 25.4 mg/l Fresh water | ethylenediamine         |
| 96 hours | Fish - Menidia menidia                                                 | Acute LC50 5.1 to 5.7 mg/l Marine water  |                         |
| 96 hours | Algae - Chlorella pyrenoidosa                                          | Acute EC50 100000 µg/l Fresh water       | ethylenediamine         |
| 48 hours | Daphnia - Daphnia magna                                                | Acute LC50 46000 µg/l Fresh water        |                         |
| 96 hours | Fish - Poecilia reticulata                                             | Acute LC50 1544700 µg/l Fresh water      |                         |
| 21 days  | Daphnia - Daphnia magna                                                | Chronic NOEC 160 µg/l Fresh water        |                         |

### Persistence and degradability

| Biodegradability | Photolysis | Aquatic half-life | Product/ingredient name |
|------------------|------------|-------------------|-------------------------|
| Readily          | -          | -                 | ethylbenzene            |

### Bioaccumulative potential

| Potential | BCF         | LogP <sub>ow</sub> | Product/ingredient name |
|-----------|-------------|--------------------|-------------------------|
| low       | 8.1 to 25.9 | 3.12               | xylene                  |
| low       | -           | 1                  | butan-1-ol              |
| low       | 15          | 3.6                | ethylbenzene            |
| low       | -           | -7.02              | ethylenediamine         |

### Mobility in soil

Not available.

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

No known significant effects or critical hazards.

: Other adverse effects




## Section 13. Disposal considerations

The generation of waste should be avoided or minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

: Disposal methods

## Section 14. Transport information

| IATA                                                                                   | IMDG                                                                                   | UN                                                                                     |                            |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------|
| UN1263                                                                                 | UN1263                                                                                 | UN1263                                                                                 | UN number                  |
| PAINT                                                                                  | PAINT                                                                                  | PAINT                                                                                  | UN proper shipping name    |
| 3<br> | 3<br> | 3<br> | Transport hazard class(es) |
| III                                                                                    | III                                                                                    | III                                                                                    | Packing group              |
| No.                                                                                    | No.                                                                                    | No.                                                                                    | Environmental hazards      |
| -                                                                                      | -                                                                                      | -                                                                                      | Additional information     |

Not applicable.

: IMDG Code Segregation group

**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.

: Special precautions for user

Not available.

: Transport in bulk according to Annex II of Marpol and the IBC Code

## Section 15. Regulatory information

No known specific national and/or regional regulations applicable to this product (including its ingredients).

: Safety, health and environmental regulations specific for the product

## Section 16. Other information

### Justification

| Justification         | Classification                   |
|-----------------------|----------------------------------|
| On basis of test data | Flam. Liq. 3, H226               |
| Calculation method    | Acute Tox. 5, H303               |
| Calculation method    | Acute Tox. 5, H313               |
| Calculation method    | Skin Irrit. 2, H315              |
| Calculation method    | Eye Dam. 1, H318                 |
| Calculation method    | Resp. Sens. 1, H334              |
| Calculation method    | Skin Sens. 1, H317               |
| Calculation method    | STOT SE 3, H335                  |
| Calculation method    | STOT RE 2, H373 (hearing organs) |

### History

11/03/2019

: Date of printing

11/03/2019

: Date of issue/Date of revision

No previous validation

: Date of previous issue

1

: Version

## Section 16. Other information

ATE = Acute Toxicity Estimate

: Key to abbreviations

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

Not available.

: References

Indicates information that has changed from previously issued version.

### Notice to reader

**IMPORTANT NOTE:** the information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates.

Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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