# **AkzoNobel**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# SAFETY DATA SHEET

## **ISOMAP P23 HARDENER**

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier

Product name : ISOMAP P23 HARDENER

**SDS code** : 12023000D

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

Identified uses

Paint. Professional use Industrial use

Uses advised against

All other uses

**Product use** : Solvent borne primer

#### 1.3 Details of the supplier of the safety data sheet

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex

France

e-mail address of person responsible for this SDS

: PSRA PAMIERS@akzonobel.com

## 1.4 Emergency telephone number

National advisory body/Poison Center

**Telephone number** : +44 (0)344 892 0111

**Supplier** 

**Telephone number** : +33 (0)5 34 01 34 01

+33 (0)5 61 60 23 30

Hours of operation :

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336

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## **SECTION 2: Hazards identification**

**STOT RE 2. H373** 

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms







Signal word : Dange

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

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

Prevention : Obtain special instructions before use. Wear protective gloves, protective clothing

and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.

Do not breathe vapor. Wash hands thoroughly after handling.

**Response**: IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a

POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage**: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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

and international regulations.

**Hazardous ingredients** : Reaction mass of ethylbenzene and xylene

Hexamethylene diisocyanate, oligomers

2-methoxy-1-methylethyl acetate

4-methylpentan-2-one

hexamethylene-di-isocyanate

Supplemental label

elements

: Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or

professional use.

Annex XVII - Restrictions

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

#### Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

## **SECTION 2: Hazards identification**

## 2.3 Other hazards

**Type** 

Product meets the criteria for PBT or vPvB according to Regulation (EC) No.

: This mixture does not contain any substances that are assessed to be a PBT or a

vPvB

1907/2006, Annex XIII
Other hazards which do
not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

| Product/ingredient name                  | Identifiers  | %         | Regulation (EC) No.<br>1272/2008 [CLP]   | Туре    |
|--|--|-----------|--|---------|
| Reaction mass of ethylbenzene and xylene | REACH #:<br>01-2119488216-32<br>EC: 905-588-0                    | ≥25 - ≤50 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412 | [1] [2] |
| Hexamethylene diisocyanate, oligomers    | REACH #:<br>01-2119485796-17<br>EC: 500-060-2<br>CAS: 28182-81-2 | ≥10 - ≤25 | Acute Tox. 4, H332<br>Skin Sens. 1, H317<br>STOT SE 3, H335  | [1] [2] |
| 2-methoxy-1-methylethyl acetate          | REACH #:<br>01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6   | ≥10 - ≤25 | Flam. Liq. 3, H226<br>STOT SE 3, H336  | [1] [2] |
| 4-methylpentan-2-one                     | EC: 203-550-1<br>CAS: 108-10-1<br>Index: 606-004-00-4            | ≥10 - <20 | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>STOT SE 3, H336<br>EUH066   | [1] [2] |
| 4-isocyanatosulphonyltoluene             | EC: 223-810-8<br>CAS: 4083-64-1<br>Index: 615-012-00-7           | ≤0.3      | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014  | [1] [2] |
| hexamethylene-di-isocyanate              | EC: 212-485-8<br>CAS: 822-06-0<br>Index: 615-011-00-1            | ≤0.1      | Acute Tox. 3, H331<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335  | [1] [2] |
|  |  |           | See Section 16 for<br>the full text of the H<br>statements declared<br>above.  |         |

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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# **SECTION 3: Composition/information on ingredients**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

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

Ingestion

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

## 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.

## 4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation

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## **SECTION 4: First aid measures**

and dermal routes of exposure and eye contact.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Hexamethylene diisocyanate, oligomers, 4-isocyanatosulphonyltoluene, hexamethylene-di-isocyanate. May produce an allergic reaction.

### Over-exposure signs/symptoms

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

pain or irritation

watering redness

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

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

irritation redness

**Ingestion**: No specific data.

## 4.3 Indication of any immediate medical attention and special treatment needed

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.

# **SECTION 5: Firefighting measures**

## 5.1 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.

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

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

Hazardous combustion

products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

## 5.3 Advice for firefighters

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.

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# **SECTION 5: Firefighting measures**

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders: If 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".

## 6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

## 6.3 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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 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. 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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling)

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# **SECTION 7: Handling and storage**

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.

## 7.2 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.

## Seveso Directive - Reporting thresholds

#### **Danger criteria**

|     | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonne                      | 50000 tonne             |

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name                  | Exposure limit values   |
|--|---|
| Reaction mass of ethylbenzene and xylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed  |
|  | through skin.   |
|  | STEL: 441 mg/m³ 15 minutes.   |
|  | STEL: 100 ppm 15 minutes.   |
|  | TWA: 220 mg/m³ 8 hours.   |
| !  | TWA: 50 ppm 8 hours.  |
| Hexamethylene diisocyanate, oligomers    | EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation  |
|  | sensitizer.   |
|  | STEL: 0.07 mg/m³, (as -NCO) 15 minutes.   |
|  | TWA: 0.02 mg/m³, (as -NCO) 8 hours.   |
|  | · · · · · · · · · · · · · · · · · · ·   |
|  | through skin.   |
|  | STEL: 548 mg/m³ 15 minutes.   |
|  |   |
|  |   |
| !  | • •   |
| * *                                      | , , , , ,   |
| !  |   |
|  | STEL: 416 mg/m³ 15 minutes.   |
|  | STEL: 100 ppm 15 minutes.   |
| 4-methylpentan-2-one                     | EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin.  STEL: 548 mg/m³ 15 minutes.  TWA: 50 ppm 8 hours.  TWA: 274 mg/m³ 8 hours.  STEL: 100 ppm 15 minutes.  EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. |

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# SECTION 8: Exposure controls/personal protection

TWA: 208 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. 4-isocyanatosulphonyltoluene

EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation

sensitizer.

STEL: 0.07 mg/m³, (as -NCO) 15 minutes. TWA: 0.02 mg/m³, (as -NCO) 8 hours.

EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation

sensitizer. Notes: as NCO

STEL: 0.07 mg/m³, (as -NCO) 15 minutes. TWA: 0.02 mg/m<sup>3</sup>, (as -NCO) 8 hours.

procedures

hexamethylene-di-isocyanate

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

| Product/ingredient name                  | Type | Exposure                 | Value                 | Population            | Effects  |
|--|------|--------------------------|-----------------------|-----------------------|----------|
| Reaction mass of ethylbenzene and xylene | DNEL | Long term Oral           | 1.6 mg/kg<br>bw/day   | General population    | Systemic |
|  | DNEL | Long term<br>Inhalation  | 14.8 mg/m³            | General<br>population | Systemic |
|  | DNEL | Long term<br>Inhalation  | 77 mg/m³              | Workers               | Systemic |
|  | DNEL | Long term Dermal         | 108 mg/kg<br>bw/day   | General population    | Systemic |
|  | DNEL | Long term Dermal         | 180 mg/kg<br>bw/day   | Workers               | Systemic |
|  | DNEL | Short term<br>Inhalation | 289 mg/m³             | Workers               | Local    |
|  | DNEL | Short term<br>Inhalation | 289 mg/m <sup>3</sup> | Workers               | Systemic |
| 4-methylpentan-2-one                     | DNEL | Long term Oral           | 4.2 mg/kg<br>bw/day   | General population    | Systemic |
|  | DNEL | Long term Dermal         | 4.2 mg/kg<br>bw/day   | General population    | Systemic |
|  | DNEL | Long term Dermal         | 11.8 mg/<br>kg bw/day | Workers               | Systemic |
|  | DNEL | Long term<br>Inhalation  | 14.7 mg/m³            | General population    | Local    |
|  | DNEL | Long term<br>Inhalation  | 14.7 mg/m³            | General population    | Systemic |
|  | DNEL | Long term<br>Inhalation  | 83 mg/m³              | Workers               | Local    |
|  | DNEL | Long term<br>Inhalation  | 83 mg/m³              | Workers               | Systemic |
|  | DNEL | Short term<br>Inhalation | 155.2 mg/<br>m³       | General population    | Local    |
|  | DNEL | Short term<br>Inhalation | 155.2 mg/<br>m³       | General<br>population | Systemic |
|  | DNEL | Short term<br>Inhalation | 208 mg/m <sup>3</sup> | Workers               | Local    |

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# **SECTION 8: Exposure controls/personal protection**

| <u> </u>                     |      | •                        |                        |                    |          |
|------------------------------|------|--------------------------|------------------------|--------------------|----------|
|                              | DNEL | Short term<br>Inhalation | 208 mg/m <sup>3</sup>  | Workers            | Systemic |
| 4-isocyanatosulphonyltoluene | DNEL | Long term Oral           | 0.46 mg/<br>kg bw/day  | General population | Systemic |
|                              | DNEL | Long term Dermal         | 0.46 mg/<br>kg bw/day  | General population | Systemic |
|                              | DNEL | Long term<br>Inhalation  | 0.8 mg/m <sup>3</sup>  | General population | Systemic |
|                              | DNEL | Long term Dermal         | 0.92 mg/<br>kg bw/day  | Workers            | Systemic |
|                              | DNEL | Long term<br>Inhalation  | 3.24 mg/m³             | Workers            | Systemic |
| hexamethylene-di-isocyanate  | DNEL | Long term<br>Inhalation  | 0.035 mg/<br>m³        | Workers            | Local    |
|                              | DNEL | Long term<br>Inhalation  | 0.035 mg/<br>m³        | Workers            | Systemic |
|                              | DNEL | Short term<br>Inhalation | 0.07 mg/m <sup>3</sup> | Workers            | Local    |
|                              | DNEL | Short term<br>Inhalation | 0.07 mg/m <sup>3</sup> | Workers            | Systemic |

#### **PNECs**

No PNECs available.

#### 8.2 Exposure controls

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.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

## **Skin protection**

**Hand protection** 

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

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended.

Recommended gloves: Nitrile, thickness ≥ 0.12 mm.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

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# SECTION 8: Exposure controls/personal protection

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

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.

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

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. Refer to European Standard EN 1149 for further information on material and design

requirements and test methods.

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

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

approved by a specialist before handling this product.

Based on the hazard and potential for exposure, select a respirator that meets the Respiratory protection

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.

**Environmental exposure** 

controls

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

equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

## **Appearance**

Physical state : Liquid. Color : Colorless. Odor : Characteristic. : Not available. Odor threshold : Not available. pН Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range

: Closed cup: 22°C

Flash point : Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or : Not available.

explosive limits

: Not available. Vapor pressure

Vapor density : Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate).

Weighted average: 3.94 (Air = 1)

Density : 0.937 g/cm<sup>3</sup>

Solubility(ies) : Insoluble in the following materials: cold water.

Partition coefficient: n-octanol/ : Not available.

water

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

: Kinematic (room temperature): 0.53 cm<sup>2</sup>/s Viscosity

Kinematic (40°C): 0.51 cm<sup>2</sup>/s

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# **SECTION 10: Stability and reactivity**

10.1 Reactivity

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

10.2 Chemical stability

: The product is stable.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidizing materials

10.6 Hazardous decomposition products

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

should not be produced.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Acute toxicity**

| Product/ingredient name                  | Result                          | Species    | Dose        | Exposure |
|--|---------------------------------|------------|-------------|----------|
| Reaction mass of ethylbenzene and xylene | LC50 Inhalation Gas.            | Rat        | 5000 ppm    | 4 hours  |
| Hexamethylene diisocyanate, oligomers    | LC50 Inhalation Dusts and mists | Rat        | 18500 mg/m³ | 1 hours  |
| 4-methylpentan-2-one                     | LD50 Intraperitoneal            | Guinea pig | 800 mg/kg   | -        |
|  | LD50 Intraperitoneal            | Mouse      | 268 mg/kg   | -        |
|  | LD50 Intraperitoneal            | Rat        | 400 mg/kg   | -        |
|  | LD50 Oral                       | Guinea pig | 1600 mg/kg  | -        |
|  | LD50 Oral                       | Mouse      | 1900 mg/kg  | -        |
|  | LD50 Oral                       | Mouse      | 2850 mg/kg  | -        |
|  | LD50 Oral                       | Rat        | 2080 mg/kg  | -        |
|  | LD50 Oral                       | Rat        | 4600 mg/kg  | -        |
| 4-isocyanatosulphonyltoluene             | LD50 Intraperitoneal            | Rat        | 775 mg/kg   | -        |
|  | LD50 Oral                       | Rat        | 2234 mg/kg  | -        |
| hexamethylene-di-<br>isocyanate          | LC50 Inhalation Dusts and mists | Rat        | 124 mg/m³   | 4 hours  |
|  | LC50 Inhalation Dusts and mists | Rat        | 462 mg/m³   | 4 hours  |
|  | LD50 Dermal                     | Rabbit     | 570 uL/kg   | -        |
|  | LD50 Intravenous                | Mouse      | 5600 µg/kg  | -        |
|  | LD50 Oral                       | Mouse      | 350 mg/kg   | -        |
|  | LD50 Oral                       | Rat        | 710 uL/kg   | -        |

**Conclusion/Summary** 

: Not available.

## **Irritation/Corrosion**

| Product/ingredient name                  | Result                   | Species | Score | Exposure           | Observation |
|--|--------------------------|---------|-------|--------------------|-------------|
| Reaction mass of ethylbenzene and xylene | Eyes - Mild irritant     | Rabbit  | -     | 87 mg              | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5<br>mg   | -           |
|  | Skin - Mild irritant     | Rat     | -     | 8 hours 60 UI      | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>mg | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 100 %              | -           |
| Hexamethylene                            | Eyes - Moderate irritant | Rabbit  | -     | 100 mg             | -           |

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# **SECTION 11: Toxicological information**

| diisocyanate, oligomers      |                          |        |   |              |   |
|------------------------------|--------------------------|--------|---|--------------|---|
|                              | Skin - Moderate irritant | Rabbit | - | 500 mg       | - |
| 4-methylpentan-2-one         | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 | - |
|                              |                          |        |   | UI           |   |
|                              | Eyes - Severe irritant   | Rabbit | - | 40 mg        | - |
|                              | Skin - Mild irritant     | Rabbit | - | 24 hours 500 | - |
|                              |                          |        |   | mg           |   |
| 4-isocyanatosulphonyltoluene | Eyes - Moderate irritant | Rabbit | - | 100 UI       | - |
|                              | Skin - Mild irritant     | Rabbit | - | 24 hours 500 | - |
|                              |                          |        |   | UI           |   |

**Conclusion/Summary** 

: Not available.

**Sensitization** 

Conclusion/Summary : Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name                  | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| Reaction mass of ethylbenzene and xylene | Category 3 | -                 | Respiratory tract irritation |
| Hexamethylene diisocyanate, oligomers    | Category 3 | -                 | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate          | Category 3 | -                 | Narcotic effects             |
| 4-methylpentan-2-one                     | Category 3 | -                 | Narcotic effects             |
| 4-isocyanatosulphonyltoluene             | Category 3 | -                 | Respiratory tract irritation |
| hexamethylene-di-isocyanate              | Category 3 | -                 | Respiratory tract irritation |

## Specific target organ toxicity (repeated exposure)

| Product/ingredient name                  | Category   | Route of exposure | Target organs |
|--|------------|-------------------|---------------|
| Reaction mass of ethylbenzene and xylene | Category 2 | -                 | -             |

## **Aspiration hazard**

| Product/ingredient name                  | Result                         |
|--|--------------------------------|
| Reaction mass of ethylbenzene and xylene | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

: Not available.

Potential acute health effects

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

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

cause drowsiness or dizziness. May cause respiratory irritation.

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

**Ingestion**: Can cause central nervous system (CNS) depression.

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# **SECTION 11: Toxicological information**

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

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

pain or irritation watering

redness

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

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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

irritation redness

**Ingestion**: No specific data.

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

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: 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.Reproductive toxicity: No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

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# **SECTION 12: Ecological information**

| Product/ingredient name                  | Result                             | Species  | Exposure |
|--|------------------------------------|--|----------|
| Reaction mass of ethylbenzene and xylene | Acute LC50 13400 μg/l Fresh water  | Fish - Pimephales promelas   | 96 hours |
| 4-methylpentan-2-one                     | Acute LC50 505000 µg/l Fresh water | Fish - Pimephales promelas   | 96 hours |
|  | Acute LC50 540000 µg/l Fresh water | Fish - Pimephales promelas   | 96 hours |
|  | Acute LC50 537000 μg/l Fresh water | Fish - Pimephales promelas -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 96 hours |
|  | Chronic NOEC 78 mg/l Fresh water   | Daphnia - Daphnia magna  | 21 days  |
|  | Chronic NOEC 168 mg/l Fresh water  | Fish - Pimephales promelas -<br>Embryo                                       | 33 days  |

**Conclusion/Summary**: Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

## 12.3 Bioaccumulative potential

| Product/ingredient name                  | LogPow | BCF         | Potential |
|--|--------|-------------|-----------|
| Reaction mass of ethylbenzene and xylene | 3.12   | 8.1 to 25.9 | low       |
| Hexamethylene diisocyanate, oligomers    | 5.54   | 367.7       | low       |
| 2-methoxy-1-methylethyl acetate          | 1.2    | -           | low       |
| 4-methylpentan-2-one                     | 1.9    | -           | low       |
| hexamethylene-di-<br>isocyanate          | 0.02   | 57.63       | low       |

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** : Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

## **Product**

Methods of disposal

: 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.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

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# **SECTION 13: Disposal considerations**

## **Disposal considerations**

: Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

## European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code    | Waste designation   |
|---------------|---|
| EWC 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

## **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** 

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Special precautions

: 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**

|                                    | ADR/RID | IMDG   | IATA   |
|------------------------------------|---------|--------|--------|
| 14.1 UN number                     | UN1263  | UN1263 | UN1263 |
| 14.2 UN proper shipping name       | PAINT   | PAINT  | PAINT  |
| 14.3 Transport<br>hazard class(es) | 3       | 3      | 3      |
| 14.4 Packing<br>group              | III     | II     | II     |
| 14.5<br>Environmental<br>hazards   | No.     | No.    | No.    |

#### Additional information

ADR/RID

: <u>Viscous liquid exception</u> This class 3 material can be shipped as Packing Group III in packagings up to 450 L.

Tunnel code (E)

**IMDG** 

: Emergency schedules F-E, \_S-E\_

<u>Viscous liquid exception</u> This class 3 material can be shipped as Packing Group III in packagings up to 450 L.

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# SECTION 14: Transport information

IATA

: Viscous liquid exception This class 3 material can be shipped as Packing Group III in packagings up to 30 L (100 L for cargo aircraft). Transport in accordance with this provision must be noted on the Shipper's Declaration.

user

14.6 Special precautions for : 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.

14.7 Transport in bulk according to IMO instruments

: Not applicable.

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

## EU Regulation (EC) No. 1907/2006 (REACH)

## Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

## Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions**: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use** 

**Mixture** 

: Not applicable.

: Not listed

: Not listed

**Industrial emissions** (integrated pollution

prevention and control) -

Air

**Industrial emissions** 

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

## **Danger criteria**

Category

P<sub>5</sub>c

## **National regulations**

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# **SECTION 15: Regulatory information**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

## **International regulations**

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## **Montreal Protocol**

Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

## **Inventory list**

**Europe** : All components are listed or exempted.

## 15.2 Chemical Safety

**Assessment** 

: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 2, H225      | On basis of test data |
| Acute Tox. 4, H332      | Calculation method    |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Irrit. 2, H319      | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| Carc. 2, H351           | Calculation method    |
| STOT SE 3, H335         | Calculation method    |
| STOT SE 3, H336         | Calculation method    |
| STOT RE 2, H373         | Calculation method    |
| Aquatic Chronic 3, H412 | Calculation method    |

## Full text of abbreviated H statements

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# **SECTION 16: Other information**

| <b>⊮</b> 225 | Highly flammable liquid and vapor.                                |
|--------------|---|
| H226         | Flammable liquid and vapor.                                       |
| H304         | May be fatal if swallowed and enters airways.                     |
| H312         | Harmful in contact with skin.                                     |
| H315         | Causes skin irritation.   |
| H317         | May cause an allergic skin reaction.                              |
| H319         | Causes serious eye irritation.                                    |
| H331         | Toxic if inhaled.   |
| H332         | Harmful if inhaled.   |
| H334         | May cause allergy or asthma symptoms or breathing difficulties if |
|              | inhaled.  |
| H335         | May cause respiratory irritation.                                 |
| H336         | May cause drowsiness or dizziness.                                |
| H351         | Suspected of causing cancer.                                      |
| H373         | May cause damage to organs through prolonged or repeated          |
|              | exposure.   |
| H412         | Harmful to aquatic life with long lasting effects.                |
| EUH014       | Reacts violently with water.                                      |
| EUH066       | Repeated exposure may cause skin dryness or cracking.             |

## Full text of classifications [CLP/GHS]

| Acute Tox. 3      | ACUTE TOXICITY - Category 3                        |
|-------------------|--|
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                        |
| Aquatic Chronic 3 | AQUATIC HAZARD (LONG-TERM) - Category 3            |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                     |
| Carc. 2           | CARCINOGENICITY - Category 2                       |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2    |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                     |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                     |
| Resp. Sens. 1     | RESPIRATORY SENSITIZATION - Category 1             |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2             |
| Skin Sens. 1      | SKIN SENSITIZATION - Category 1                    |
| STOT RE 2         | SPECIFIC TARGET ORGAN TOXICITY (REPEATED           |
|                   | EXPOSURE) - Category 2                             |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - |
|                   | Category 3   |
|                   |  |

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**Notice to reader** 

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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 the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. 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 Material 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. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. 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 the 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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# **SECTION 16: Other information**

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