

**SAFETY DATA SHEET**

Date of issue: 7 November 2017  
Trade name: SketchPaint can A  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking.**

1.1. Product identifier

Trade name: **SketchPaint can A**  
Synonym: Whiteboard paint – Dry erase paint

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

A smooth surface treated with SketchPaint is writable and erasable with most whiteboard markers.  
Component of a two-component product.  
Product category: PROC19 (Hand-mixing),  
PROC10 (Roller application or brushing).

1.3. Details of the supplier of the safety data sheet

Manufacturer/supplier: MagPaint Europe B.V.  
Riezenweg 2  
7071 PR Uift  
THE NETHERLANDS  
Tel.: +31 (0) 315 38 64 73  
Email: info@magpaint.com  
Website: www.magpaint.com

Further information obtainable from:

Contact person: Mike Poorthuis  
Tel.: +31 (0) 315 38 64 73  
Email: info@magpaint.com  
Working hours (business days): 09h00-17h00

1.4. Emergency telephone number

The Netherlands: Nationaal Vergifingen Informatie  
Centrum (NVIC): +31 (0) 30 247 88 88  
Belgium: Belgian Poison Centre: +32 (0) 70 245 245  
United Kingdom: UWIC: +44 (0) 29 204 16388

**SECTION 2: Hazards identification.**

2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) no 1272/2008  
Acute Tox. 4; H332 - STOT SE3; H335 - Skin Sens. 1; H317 - Eye Dam. 1; H318 - H412.

2.2. Label elements



Hazard pictograms:

Signal word:

Danger.

Hazard statements:

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H332

Harmful if inhaled.



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| H335<br>H412<br>(EUH204<br>Precautions:<br>P101<br><br>P102<br>P272<br><br>P280<br>P302 + P352<br>P305 + P351 + P338<br><br>P403 + P233<br>P501 | May cause respiratory irritation.<br>Harmful to aquatic life with long lasting effects.<br>Contains isocyanates. May produce an allergic reaction.)<br><br>If medical advice is needed, have product container or label at hand.<br>Keep out of reach of children.<br>Contaminated work clothing should not be allowed out of the workplace.<br>Wear protective gloves.<br>IF ON SKIN: Wash with plenty of soap and water.<br>IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Dispose of contents/container to hazardous or special waste collection point. |
| Hazard-determining components for labelling:  | Hexane, 1,6-diisocyanato-, homopolymer and polyoxyethylene tridecyl ether phosphate.   |
| 2.3. Other hazards  | Contains isocyanates. Wear eye / face protection. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.  |
| Results of PBT and vPvB assessment  |  |
| PBT:  | No.  |
| vPvB:   | No.  |

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

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical description: Preparation comprising the following component(s) and (other) unclassified components.

Hexane, 1,6-diisocyanato-, homopolymer

CAS#: 28182-81-2

EC#: 931-274-8

Index#: -

REACH reg.#: 01-2119485796-17

Content (W/W): 50 - 70 %

Danger, 1272/2008/EC: Acute Tox. 4; H332 - STOT SE3; H335 - Skin Sens. 1; H317



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Polyoxyethylene tridecyl ether phosphate

CAS#: 9046-01-9  
EC#: polymer  
Index#: -  
REACH reg.#: -  
Content (W/W): 1 - < 10 %  
Danger, 1272/2008/EC: Skin Irrit. 2; H315 - Eye Dam. 1; H318 - Aquatic Chronic 2; H411

Ethyl-diisopropylamine

CAS#: 7087-68-5  
EC#: 230-392-0  
Index#: -  
REACH reg.#: -  
Content (W/W): 0.1 - 2 %  
Danger, 1272/2008/EC: Skin Corr. 1 B; H314 - Acute Tox. 4; H302 - Flam. Liq. 2; H225 - Aquatic Chronic 3; H412

Phosphoric acid, butyl ester

CAS#: 12788-93-1  
EC#: 235-826-2  
Index#: -  
REACH reg.#: -  
Content (W/W): 0.1 - 2 %  
Danger, 1272/2008/EC: Skin Corr. 1 B; H314

Hexamethylene-1,6-diisocyanate

CAS#: 822-06-0  
EC#: 212-485-8  
Index#: 615-011-00-1  
REACH reg.#: 01-21194457571-37  
Content (W/W): 0.1 - 0.4 %  
Danger, 1272/2008/EC: Acute Tox. 1; H330 - Resp. Sens. 1; H334 - Acute Tox. 4; H302 - Skin Irrit. 2; H315 - Eye Irrit. 2; H319 - Skin Sens. 1; H317 - STOT SE3; H335

Note: Specific concentration limits,  
Resp. Sens. 1; H334, Skin Sens. 1; H317  $\geq$  0,5.

Full text of H- and EUH-phrase(s): See section 16.

**SECTION 4: First aid measures.**

4.1. Description of first aid measures

General information:

If in doubt or if symptoms persist, seek medical attention.  
Use suitable protective equipment to treat a contaminated person.

Eye contact:

Place contaminated clothing in a sealed bag for disposal.  
Reacts with aqueous humour. Immediately flush eyes thoroughly with water (for at least 15 minutes) while holding eyelids open. Then immediately consult a physician/ophthalmologist.

Skin contact:

Remove contaminated clothing immediately. Immediately wash



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| Ingestion:  | exposed skin with polyethylene glycol or, if not available, with plenty of water and soap. Do not use solvents or thinners. If persistent irritation or sensitization occurs, consult a physician/skin specialist.<br>If swallowed, get medical attention immediately. Keep at rest. Have person rinse mouth thoroughly with water, spit out rinse water. Do NOT induce vomiting.  |
| If aerosol or vapour is inhaled in high concentrations:   | Take the person into the fresh air and keep him warm. Avoid physical exertion. Seek medical advice immediately. Show this safety data sheet to the doctor. NEVER attempt to induce vomiting. Have person rinse mouth thoroughly with water, spit out rinse water. Do not give anything to drink. Administer artificial respiration if breathing is irregular or has stopped. Do not give anything to eat or drink. Loosen tight clothing such as a shirt collar, tie, belt or waistband. If unconscious, place in recovery position and seek medical advice.   |
| 4.2. Most important symptoms and effects, both acute and delayed<br>Inhalation:                               | Dry/sore throat. Coughing. Irritation of the respiratory tract. Nasal irritation. Runny nose. Risk of asphyxiation in confined spaces. The product contains isocyanates. Given the properties of this component, and considering the toxicological data available on similar preparations, the product may cause acute irritation and / or sensitization of the respiratory tract. Asthma symptoms, breathing difficulties or chest tightness may occur. Exposure to vapour concentrations above the occupational exposure limit may result in adverse effects such as irritation of the mucous membranes and the respiratory tract, kidney and liver disorders and disorders of the central nervous system. Signs and symptoms of exposure include coughing, headaches, shortness of breath, tightness in the chest, transient flu-like symptoms. The effects may be delayed for hours (Risk of inflammation of the respiratory tract. Risk of pulmonary oedema. Breathing difficulties). |
| Skin contact:   | Tingling / irritation of the skin.   |
| Eye contact:  | Reacts with aqueous humour. Irritating. Lacrimation.   |
| Ingestion:  | Primary irritation of mucous membranes: Irritating.  |
| 4.3. Indication of any immediate medical attention and special treatment needed<br>Further medical treatment: | Symptomatic treatment and supportive therapy as prescribed. Symptomatic treatment (decontamination, control of vital functions). No specific antidote known. To prevent pulmonary oedema: corticosteroid-containing dosing aerosol.  |

## SECTION 5: Firefighting measures.

### 5.1. Extinguishing media

Suitable extinguishing media: Use CO<sub>2</sub>, ABC powder, alcohol-resistant foam or water spray.  
Unsuitable extinguishing media for safety reasons: The material reacts with water, do not use direct water stream.



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### 5.2. Special hazards arising from the substance or mixture

Special hazards: Fire will produce dense black smoke. Wear respiratory protection. Exposure to decomposition products may be a hazard to health. In case of fire, hazardous and toxic vapours may be released, such as carbon dioxide, carbon monoxide, hydrogen cyanide, nitrogen oxides, isocyanate.

### 5.3. Advice for firefighters

Protection of fire-fighters: For fire-fighters, mouth and nose protection with independent air supply (breathing apparatus) and full (chemical) protective clothing are mandatory. Use qualified personnel who are well aware of the dangers of this product. After use, clean the equipment thoroughly (shower, clean clothing thoroughly and check suitability).

Additional information: If closed containers are exposed to fire, keep cool with water. Avoid direct contact of liquid with water. Prevent fire-fighting water from entering the sewage system. Stay upwind.

## SECTION 6: Accidental release measures.

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

Wear appropriate personal protective equipment, including safety glasses, personal protective clothing and chemical resistant gloves when cleaning up major spillages. Ventilate the area. Avoid inhalation of vapours. Avoid skin and eye contact. Keep people at a distance and stay upwind.

### 6.2. Environmental precautions

Prevent product from entering sewers or surface water. If this should occur, inform the local authorities. Do not allow to enter the soil or subsoil.

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container. The area should be immediately cleaned with a suitable detergent. Such a detergent or neutralising agent can be made by mixing: water (95%)/8% ammonia solution and liquid soap (2%). Alternatively, half of the water may be replaced by ethanol or isopropyl alcohol. Also add the above mixture to the spill and leave it in an unsealed container for several days.

### 6.4. Reference to other sections

Information regarding safe handling – see section 7.  
Information regarding personal protective equipment – see section 8.  
Information regarding disposal – see section 13.

## SECTION 7: Handling and storage.

### 7.1. Precautions for safe handling



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| Handling:   | When handling observe the usual precautionary measures for chemicals. Strict hygiene is required. See section 8 for personal protection. Persons suffering from asthma, allergies or chronic or acute disorders of the respiratory tract, should not handle this product. Skin and eye contact, as well as inhalation of vapour, should be avoided. Do not smoke, eat or drink in the working area. Provide ventilation/exhaust ventilation in closed workspaces. When spraying, use respiratory protection. Protect from moisture. Fresh products made from isocyanates may contain unreacted isocyanates and other dangerous substances. Keep container tightly closed. Contact with water and moist air generates CO <sub>2</sub> , which generates pressure in sealed containers. Danger of bursting when container is sealed gas-tight. Re-open used containers with caution. |
| 7.2. Conditions for safe storage, including any incompatibilities |  |
| Storage:  | Keep container tightly closed in a cool, dry, well-ventilated place. Protect from moisture. In combination with moisture, CO <sub>2</sub> overpressure may develop. Keep away from heat and direct sunlight. Keep away from water, oxidants, amines, polyols and strong bases and acids. Keep away from food, stimulants and animal feeding stuffs. Do not smoke. Make sure that the product is not accessible to unauthorized persons. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Fill space above liquid level preferably under dry nitrogen.   |
| Requirements to be met by storerooms and receptacles:             | Preferably keep in the original packaging.   |
| Packaging material, suitable:                                     | Original container, coated can, stainless steel, polyethylene.   |
| Packaging material, unsuitable:                                   | Paper, cardboard, copper, copper alloys, brass, tin.   |
| Information about storage in one common storage facility:         | Keep away from oxidants, strong bases and acids, protic solvents, amines and alcohols.   |
| Further information about storage conditions:                     | Recommended storage temperature 1 - 49 °C.   |
| 7.3. Specific end use(s)  | No further relevant information available.   |

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

8.1. Control parameters

|   |   |  |
|---|---|--|
| Ingredients with limit values that require monitoring at the workplace: |   |  |
| Product information:<br>CAS#: 822-06-0                                  | Hexamethylene diisocyanate/hexamethylene-1,6-diisocyanate |  |
| TWA 8 h   | mg/m <sup>3</sup> (ppm)                                   | 0.04 (-) formerly Dutch value<br>0.034 (0.005) Belgium<br>0.035 (0.005) Germany, Denmark, Norway, Austria, Spain<br>0.02 (0.002) Sweden<br>0.02 (-) Switzerland<br>0.075 (0.01) France |
| TWA 15 minutes  |   | 0.14 (-) formerly Dutch value<br>0.15 (0.02) France<br>0.035 (0.005) Austria<br>0.03 (0.005) Sweden<br>0.02 (-) Switzerland  |

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| Dangerous ingredients with DN(M)EL:                           |                       |       |                   |                             |
|---|-----------------------|-------|-------------------|-----------------------------|
| Product information:  | Exposure              | Value | Unit              | Population / Effects        |
| Hexane, 1,6-diisocyanato-, homopolymer<br>CAS#: 28182-81-2    |                       |       |                   |                             |
| DN(M)EL   | Short-term dermal     | -     | mg/kg bw/day      | Workers Local               |
| DN(M)EL   | Short-term inhalation | -     | mg/m <sup>3</sup> | Workers Local               |
| DN(M)EL   | Short-term dermal     | -     | mg/kg bw/day      | Workers Systemic            |
| DN(M)EL   | Short-term inhalation | 1     | mg/m <sup>3</sup> | Workers Systemic            |
| DN(M)EL   | Long-term dermal      | -     | mg/kg bw/day      | Workers Local               |
| DN(M)EL   | Long-term inhalation  | 0.5   | mg/m <sup>3</sup> | Workers Local               |
| DN(M)EL   | Long-term dermal      | -     | mg/kg bw/day      | Workers Systemic            |
| DN(M)EL   | Long-term inhalation  | -     | mg/m <sup>3</sup> | Workers Systemic            |
| DN(M)EL   | Short-term dermal     | -     | mg/kg bw/day      | General population Local    |
| DN(M)EL   | Short-term inhalation | -     | mg/m <sup>3</sup> | General population Local    |
| DN(M)EL   | Short-term dermal     | -     | mg/kg bw/day      | General population Systemic |
| DN(M)EL   | Short-term inhalation | -     | mg/m <sup>3</sup> | General population Systemic |
| DN(M)EL   | Short-term Oral       | -     | mg/kg bw/day      | General population Systemic |
| DN(M)EL   | Long-term dermal      | -     | mg/kg bw/day      | General population Systemic |
| DN(M)EL   | Long-term inhalation  | -     | mg/m <sup>3</sup> | General population Systemic |
| DN(M)EL   | Long-term oral        | -     | mg/kg bw/day      | General population Systemic |
| DN(M)EL   | Long-term dermal      | -     | mg/kg bw/day      | General population Local    |
| DN(M)EL   | Long-term inhalation  | -     | mg/m <sup>3</sup> | General population Local    |
| Dangerous ingredients with DN(M)EL:                           |                       |       |                   |                             |
| Product information:  | Exposure              | Value | Unit              | Population / Effects        |
| Hexamethylene diisocyanate/<br>hexamethylene-1,6-diisocyanate |                       |       |                   |                             |



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|                |                       |             |                   |                             |
|----------------|-----------------------|-------------|-------------------|-----------------------------|
| CAS#: 822-06-0 |                       |             |                   |                             |
| DN(M)EL        | Short-term dermal     | sensitizing | mg/kg bw/day      | Workers Local               |
| DN(M)EL        | Short-term inhalation | 0.07        | mg/m <sup>3</sup> | Workers Local               |
| DN(M)EL        | Short-term dermal     | sensitizing | mg/kg bw/day      | Workers Systemic            |
| DN(M)EL        | Short-term inhalation | 0.07        | mg/m <sup>3</sup> | Workers Systemic            |
| DN(M)EL        | Long-term dermal      | sensitizing | mg/kg bw/day      | Workers Local               |
| DN(M)EL        | Long-term inhalation  | 0.035       | mg/m <sup>3</sup> | Workers Local               |
| DN(M)EL        | Long-term dermal      | sensitizing | mg/kg bw/day      | Workers Systemic            |
| DN(M)EL        | Long-term inhalation  | 0.035       | mg/m <sup>3</sup> | Workers Systemic            |
| DN(M)EL        | Short-term dermal     | -           | mg/kg bw/day      | General population Local    |
| DN(M)EL        | Short-term inhalation | -           | mg/m <sup>3</sup> | General population Local    |
| DN(M)EL        | Short-term dermal     | -           | mg/kg bw/day      | General population Systemic |
| DN(M)EL        | Short-term inhalation | -           | mg/m <sup>3</sup> | General population Systemic |
| DN(M)EL        | Short-term Oral       | -           | mg/kg bw/day      | General population Systemic |
| DN(M)EL        | Long-term dermal      | -           | mg/kg bw/day      | General population Systemic |
| DN(M)EL        | Long-term inhalation  | -           | mg/m <sup>3</sup> | General population Systemic |
| DN(M)EL        | Long-term oral        | -           | mg/kg bw/day      | General population Systemic |
| DN(M)EL        | Long-term dermal      | -           | mg/kg bw/day      | General population Local    |
| DN(M)EL        | Long-term inhalation  | -           | mg/m <sup>3</sup> | General population Local    |

Dangerous ingredients with PNEC:

| Product information:                                       | Value  | Unit     | Compartment                  |
|--|--------|----------|------------------------------|
| Hexane, 1,6-diisocyanato-, homopolymer<br>CAS#: 28182-81-2 |        |          |                              |
| PNEC   | 0.127  | mg/l     | Fresh water                  |
| PNEC   | 0.0127 | mg/l     | Marine water                 |
| PNEC   | 1.27   | mg/l     | Intermittent releases        |
| PNEC   | 38.28  | mg/l     | STP (sewage treatment plant) |
| PNEC   | 266.7  | g/kg dwt | Sediment fresh water         |



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|------|------|-----------|-----------------------|
| PNEC | -    | mg/kg dwt | Sediment marine water |
| PNEC | 53.2 | g/kg wwt  | Soil                  |
| PNEC | -    | mg/l      | Oral                  |

| Dangerous ingredients with PNEC:  |          |           |                              |
|---|----------|-----------|------------------------------|
| Product information:  | Value    | Unit      | Compartment                  |
| Hexamethylene diisocyanate/<br>hexamethylene-1,6-diisocyanate<br>CAS#: 822-06-0 |          |           |                              |
| PNEC  | 0.0774   | mg/l      | Fresh water                  |
| PNEC  | 0.00774  | mg/l      | Marine water                 |
| PNEC  | 0.774    | mg/l      | Intermittent releases        |
| PNEC  | 8.42     | mg/l      | STP (sewage treatment plant) |
| PNEC  | 0.01334  | mg/kg dwt | Sediment fresh water         |
| PNEC  | 0.001334 | mg/kg dwt | Sediment marine water        |
| PNEC  | 0.0026   | mg/kg wwt | Soil                         |
| PNEC  | -        | mg/l      | Oral                         |

8.2. Exposure controls

Note:

Material is part of a two-component system. For exposure controls, see also section 8 of the safety data sheet of SketchPaint can B.

Personal protection:

Persons suffering from asthma, allergies or chronic or acute disorders of the respiratory tract, should not handle this product. Ensure adequate ventilation, which should be achieved by the use of local exhaust ventilation and good general ventilation Do not eat, drink or smoke when using this product. Keep away from foodstuffs and beverages. Emergency showers.

Mouth and nose protection:

Adequate ventilation (ventilation factor > 1). Use only in well-ventilated areas. Respiratory protection in case of vapour/aerosol release. Combination filter for organic, inorganic, acid inorganic and alkaline gases/vapours (e.g. EN 14387 type ABEK, A1 or, if not available, EN 149 filter type A). When spraying: Self-contained breathing apparatus.

Skin and body:



Wear suitable protective work clothing and gloves. Remove contaminated clothing immediately. Wash thoroughly if skin comes into contact with the product. Store protective clothing separately. Emergency showers.

Hands:



Wash hands (and / or face) thoroughly before breaks and at the end of work. Wear protective gloves if skin contact may occur (EN 374). Do not rub eyes with dirty hands. For prolonged or repeated use: wear nitrile (0.4 mm layer thickness) or butyl (0.7 mm layer thickness) rubber gloves. Polyvinyl chloride (PVC) (0.7 mm layer thickness) and polyethylene laminate (PE laminate, 0.1 mm layer thickness) are unsuitable. Contaminated gloves should be replaced. Barrier creams may be applied to protect exposed skin. However, do not use these creams after exposure. On contact with a two-components product that just finished reacting, the use of chemical resistant gloves is recommended.

Eyes:



Safety goggles with side-shields (EN 166). Eye shower.



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|---------------------------------|---|
| Measuring procedures:           | In order to establish compliance with an exposure limit and to establish that exposure is properly controlled, it may be necessary to determine the concentration of the substances in the inhalation zone or in the general workspace. |
| Environmental exposure control: | Do not disperse product residues into the environment.  |

**SECTION 9: Physical and chemical properties.**

**9.1. Information on basic physical and chemical properties**

**General information**

**Appearance**

|  |  |
|--|--|
| Form:                                    | Liquid.  |
| Colour:                                  | Clear, transparent.  |
| Odour:                                   | Neutral.   |
| Odour threshold:                         | Not determined.  |
| pH-value:                                | Not determined.  |
| <b>Change in condition</b>               |  |
| Melting point/melting range:             | Not determined.  |
| Initial boiling point and boiling range: | Not determined.  |
| Flash point:                             | > 100 °C.  |
| Flammability (solid, gas):               | Not determined.  |
| Auto-ignition temperature:               | Not determined.  |
| <b>Explosive limits</b>                  |  |
| Lower:                                   | Not determined.  |
| Upper:                                   | Not determined.  |
| Vapour pressure:                         | Not determined.  |
| Vapour density:                          | Not determined.  |
| Relative density:                        | 1.068 - 1.088 (water = 1).                                   |
| Evaporation rate:                        | Not determined.  |
| Solubility in water:                     | Freely soluble, reactive.                                    |
| Partition coefficient (n-octanol/water): | Not determined.  |
| <b>Viscosity</b>                         |  |
| Dynamic:                                 | Not determined.  |
| Kinematic:                               | 57 - 63 KU at 25 °C (Stormer viscometer, ASTM Method D-562). |
| Explosive properties:                    | Not determined.  |
| Oxidising properties:                    | Not determined.  |

**9.2. Other information** No data available.

**SECTION 10: Stability and reactivity.**

|  |   |
|--|---|
| 10.1. Reactivity                               | Contact with amines and alcohols causes exothermic reactions. |
| 10.2. Chemical stability                       | Stable under normal conditions.                               |
| Thermal decomposition/<br>Conditions to avoid: | No specific data available.                                   |



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| 10.3. Possibility of hazardous reactions | May polymerize with many compounds e.g.: (strong) bases and amines.<br>Reacts violently with (some) acids/bases.   |
| 10.4. Conditions to avoid                | Contact with moisture (also from air). Temperatures above 90 °C. Avoid low temperatures (loss of quality).   |
| 10.5. Incompatible materials             | Keep away from oxidants, strong bases and acids, protic solvents, amines and alcohols. The product reacts slowly with water, resulting in the production of CO <sub>2</sub> which may cause closed containers to burst.              |
| 10.6. Hazardous decomposition products   | Unlikely at the recommended storage temperature and under normal conditions of use. In case of combustion: formation of toxic and corrosive gases/vapours: carbon monoxide, carbon dioxide, fume, nitrogen oxides, hydrogen cyanide. |

**SECTION 11: Toxicological information.**

11.1. Information on toxicological effects

Acute toxicity from the components.

LD/LC50 values relevant for classification:

|  |   |  |
|--|---|--|
| Product information:<br>CAS#: 28182-81-2 | Hexane, 1,6-diisocyanato-, homopolymer                    |  |
| Oral                                     | LD50  | > 2500 mg/kg (rat female, OECD423)           |
| Inhalation                               | LC50 (4 h)  | 0.39 mg/m <sup>3</sup> (rat female, OECD403) |
| Dermal                                   | LD50  | > 2000 mg/kg (rat, OECD402)                  |
| Product information:<br>CAS#: 7087-68-5  | Ethyl-diisopropylamine                                    |  |
| Oral                                     | LD50  | 317 mg/kg (rat, 92/69/EEC - B.1)             |
| Inhalation                               | LC50 (4 h)  | -  |
| Dermal                                   | LD50  | -  |
| Product information:<br>CAS#: 12788-93-1 | Phosphoric acid, butyl ester                              |  |
| Oral                                     | LD50  | 959 mg/kg (rat, OECD401)                     |
| Inhalation                               | LC50 (4 h)  | 124 mg/m <sup>3</sup> (rat, OECD403)         |
| Dermal                                   | LD50  | > 7000 mg/kg (rat, OECD402)                  |
| Product information:<br>CAS#: 822-06-0   | Hexamethylene diisocyanate/hexamethylene-1,6-diisocyanate |  |
| Oral                                     | LD50  | 959 mg/kg (rat, OECD401)                     |
| Inhalation                               | LC50 (4 h)  | 124 mg/m <sup>3</sup> (rat, OECD403)         |
| Dermal                                   | LD50  | > 7000 mg/kg (rat, OECD402)                  |

The following health hazard assessment is based on an assessment of the various ingredients in the product.

Primary irritant effect.

Effects on the eyes: Possible eye irritation. Reacts with aqueous humour.



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|---|---|
| Effects on the skin:  | Irritating. May cause sensitization by skin contact.  |
| Effect on the respiratory organs:   | May cause respiratory irritation.   |
| Chronic effects:  | Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL (=Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability.   |
| Mutagenicity of reproductive cells:<br>Reproductive and developmental toxicity: | Not classified.<br><br>The substance contains isocyanate, showed mutagenic effects in various test systems with microorganisms and cell cultures; however, these results could not be confirmed in tests with mammals. The NOEL value of hexamethylene diisocyanate is set at 0.034 mg/m <sup>3</sup> . |
| Sensitization:  | Contains isocyanate. May cause damage to organs through prolonged or repeated exposure if inhaled. For persons sensitized to isocyanates, exposure to levels even well below the PEL can lead to a severe allergic reaction.  |
| CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):      | Contains a small amount of N, N-diisopropylethylamine (CAS# 7087-68-5, < 1 %); under specific circumstances, ethyldiisopropylamine can form nitrosamines compounds which are carcinogenic in animal studies.  |
| Other information:  | No further relevant information available.  |

**SECTION 12: Ecological information.**

12.1. Toxicity  
 Ecotoxicity from the components.  
 Aquatic toxicity:

|  |  |  |
|--|--|--|
| Product information:<br>CAS#: 28182-81-2 | Hexane, 1,6-diisocyanato-, homopolymer   |  |
| Fish                                     | LL0 (96 h)                               | ≥ 82.8 mg/l (Brachydanio rerio, EU Method C.1)                   |
| Water flea                               | EL50 (48 h)                              | 127 mg/l (Daphnia magna, EU Method C.2)                          |
| Algae                                    | EC50 (72 h)                              | 370 mg/l (Desmodesmus subspicatus, EU Method C.3)                |
| Persistence and degradability            | ErC10 (72 h)                             | > 1000 mg/l <i>Desmodesmus subspicatus</i> , EU Method C.3)      |
|  | BOD28                                    | 1 % (EU C.4-E, unpublished)                                      |
| Bioaccumulative potential                | DT50                                     | DT50 3 h (Photolysis) ((25°C, AOPWIN v1.92, internal evaluation) |
|  | BCF                                      | 7.7 h (hyd., 23°C, ASTM D4666, internal evaluation)              |
| Mobility in soil                         | Log Koc                                  | 3.2 (Fisch) (BCFWIN v. 2.17)                                     |
| Behaviour in purification plant          | EC50 (3 h)                               | 7.8 (l) (PCKOC v1.66)  |
|  |  | 3828 mg/l (activated sludge, OECD 209)                           |
| Product information:<br>CAS#: 9046-01-9  | polyoxyethylene tridecyl ether phosphate |  |
| Fish                                     | LC50 (96 h)                              | 10 mg/l (Brachydanio rerio)                                      |
| Water flea                               | EC0 (48 h)                               | -  |
| Algae                                    | EC50 (72 h)                              | -  |
| Behaviour in purification plant          | EC20 (30 m)                              | > 1000 mg/l (activated sludge, DIN EN ISO 8192)                  |



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|--|---|--|
| Product information:<br>CAS#: 7087-68-5  | Ethylidiisopropylamine                                    |  |
| Fish                                     | LC50 (96 h)   | -  |
| Water flea                               | EC0 (48 h)  | 74.3 mg/l (Daphnia magna, 79/831/EEC)                |
| Algae                                    | EC50 (72 h)   | -  |
| Bacteria                                 | EC50  | -  |
| Product information:<br>CAS#: 12788-93-1 | Phosphoric acid, butyl ester                              |  |
| Fish                                     | LC50 (96 h)   | > 100 mg/l (Oncorhynchus mykiss)                     |
| Water flea                               | EC0 (48 h)  | > 100 mg/l (Daphnia magna, OECD202)                  |
| Algae                                    | EC50 (72 h)   | -  |
| Behaviour in purification plant          | EC50  | > 100 mg/l (activated sludge)                        |
| Product information:<br>CAS#: 822-06-0   | Hexamethylene diisocyanate/hexamethylene-1,6-diisocyanate |  |
| Fish                                     | LC0 (96 h)  | ≥ 82.8 mg/l (Danio rerio, EU Method C.1)             |
| Water flea                               | EC0 (48 h)  | ≥ 89.1 mg/l (Daphnia magna, EU Method C.2)           |
| Algae                                    | EC50 (72 h)   | > 77.4 mg/l (Desmodesmus subspicatus, EU Method C.3) |
| Bacteria                                 | EC50 (3 h)  | 842 mg/l (activated sludge, similar to OECD209)      |

The following ecological risk assessment is based on an assessment of the various ingredients in the product.

|   |   |
|---|---|
| 12.2. Persistence and degradability                     | Contains isocyanate, of which no biodegradation was observed under test conditions.   |
| 12.3. Bioaccumulative potential                         | Significant accumulation in organisms is not to be expected.  |
| 12.4. Mobility in soil                                  | The product has limited solubility in water. The product reacts with water to form insoluble polyurea.  |
| Further ecological information.<br>General information: | -   |
| 12.5. Results of PBT and vPvB assessment                | The product does not meet all of the assessment criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB. |
| 12.6. Other adverse effects                             | Not dangerous for the ozone layer.  |

**SECTION 13: Disposal considerations.**

|   |  |
|---|--|
| 13.1. Waste treatment methods<br>Product waste: | Neutralise, see section 6. May be brought to a supervised incineration plant in compliance with local regulations. The generation of waste should be avoided or minimised wherever possible. If this is not possible, destroy in an approved incineration facility, where flue gases and other toxic combustion products are washed and neutralised. Waste, even small quantities, should never be poured down drains of |
|---|--|



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|---|---|
| Eural code for waste:                   | discharged in surface water.<br>08 04 09*. WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS, wastes from MFSU of adhesives and sealants (including waterproofing products) ; wastes from adhesives and sealants containing organic solvents or other dangerous substances. Classified as hazardous waste.<br>Depending on branch of industry and production process, also other EURAL codes may be applicable.<br>Hazardous waste according to Directive 2008/98/EC. |
| Uncleaned packaging.<br>Recommendation: | Disposal must be made according to official regulations. Empty the packaging with care. Do not contaminate soil, water or environment with the waste container. Comply with local regulations with regard to the recovery or disposal of waste.   |
| Eural code for packaging:               | 08 05 01*. WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS not otherwise specified in 08; waste isocyanates. Classified as hazardous waste.   |

**SECTION 14: Transport information.**

Land transport ADR/RID (cross-border).

ADR/GGVSEB class: -  
Hazard identification number: -  
UN number: -  
Packing group: -  
Label: -  
Special marking: -  
UN proper shipping name: -  
Tunnel restriction code: -  
Note: Not a dangerous good according to the transport regulations.

Inland shipping ADN/ADR.

ADN/R-class: -  
UN number: -  
Environmental hazards: -

Maritime transport IMDG.

IMDG-class: -  
UN number: -  
Label: -  
Packing group: -  
Maximum quantity: -  
EMS number: -  
Stowage and segregation: -



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|  |       |
|--|-------|
| Marine pollutant:  | -     |
| Proper shipping name:  | -     |
| Air transport ICAO-TI and IATA-DGR.  |       |
| ICAO/IATA class:   | -     |
| UN number:   | -     |
| Label:   | -     |
| Packing group:   | -     |
| Proper shipping name:  | -     |
| 14.1. UN number  | Void. |
| 14.2. UN proper shipping name  | Void. |
| 14.3. Transport hazard class(es)   | Void. |
| 14.4. Packing group  | Void. |
| 14.5. Environmental hazards  | Void. |
| 14.6. Special precautions for user   | None. |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Void. |

**SECTION 15: Regulatory information.**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
National regulations: -

EU regulations and directives which affect this mixture (not yet directly or indirectly mentioned):

|                           |   |
|---------------------------|---|
| Directive 89/686/EEC      | Personal protective equipment (is to be replaced from 21 April 2018 by regulation (EU) 2016/425).   |
| Directive 94/33/EC        | Protection of young people at work.   |
| Directive 98/24/EC        | Risks related to chemical agents at work.   |
| Regulation (EC) 2009/552  | Annex XVII to Regulation 1907/2009; diisocyanates from MDI for consumers (supplement to Regulation 2013/126).   |
| Regulation (EC) 1907/2006 | Annex XV restriction report, proposal for a restriction (diisocyanates), ECHA / BAuA, 06 October 2016.  |
| Regulation (EC) 2008/1272 | On classification, labelling and packaging of substances and mixtures.  |
| Regulation (EU) 2015/830  | Commission regulation of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). |

15.2. Chemical safety assessment A chemical safety assessment has not been carried out.

**SECTION 16: Other information.**



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List of relevant H- and EUH-phrase(s) referred to under headings 2 and 3:

H225 - Highly flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H319 - Causes serious eye irritation.  
H330 - Fatal if inhaled.  
H332 - Harmful if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.  
H411 - Toxic to aquatic life with long lasting effects.  
H412 - Harmful to aquatic life with long lasting effects.  
EUH204 - Contains isocyanates. May produce an allergic reaction.  
Aquatic Chronic - Hazardous to the aquatic environment, chronic.  
Acute Tox. - Acute toxicity.  
Eye Dam. - Serious eye damage.  
Eye Irrit. - Serious eye irritation.  
Flam. Liq. - Flammable liquid.  
Skin Corr. - Skin corrosion.  
Skin Irrit. - Skin irritation.  
Skin Sens. - Skin sensitization.  
STOT SE - Specific target organ toxicity - single exposure.

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Modification: According to safety data sheet legislation.

Information source: -

Classification according to Regulation (EC) No 1272/2008: Classification of the mixture based on the standard calculation method.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties. It is the obligation of the user to use this product with care and to act in consideration of the applicable laws and legislation.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)





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|           |   |
|-----------|---|
| IMDG:     | International Maritime Code for Dangerous Goods                                     |
| IATA:     | International Air Transport Association   |
| IATA-DGR: | Dangerous Goods Regulations by the "International Air Transport Association" (IATA) |
| ICAO:     | International Civil Aviation Organization   |
| ICAO-TI:  | Technical Instructions by the "International Civil Aviation Organization" (ICAO)    |
| P:        | Marine Pollutant  |
| GHS:      | Globally Harmonized System of Classification and Labelling of Chemicals             |
| CAS:      | Chemical Abstracts Service (division of the American Chemical Society)              |
| EC50:     | Half maximal effective concentration  |
| LC50:     | Lethal concentration, 50 percent  |
| LD50:     | Lethal dose, 50 percent   |
| OEL:      | Occupational Exposure Limit   |
| NOEC:     | No Observed Effect Concentration  |
| vPvB:     | Very Persistent and Very Bioaccumulative  |
| PBT       | Persistent, Bioaccumulative and Toxic substance                                     |
| EWC:      | European Waste Catalogue  |
| TWA:      | Time-Weighted Average, limit value associated with the MAC value                    |
| DNEL:     | Derived No-Effect Level   |
| DMEL:     | Derived Minimal Effect Level  |
| PNEC:     | Predicted No-Effect Concentration   |