

# SAFETY DATA SHEET

A1000 HARDENER

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

| 1.1 Product identifier |                  |
|------------------------|------------------|
| Product name           | : A1000 HARDENER |
| SDS code               | : 1210000D       |

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

|   | Identified uses                                |
|---|--|
| Paint. Professional use Indus                                       | trial use                                      |
|   | Uses advised against                           |
| All other uses  |  |
| Product use   | : Solvent borne coating for exterior use.      |
| 1.3 Details of the supplier of                                      | the safety data sheet                          |
| MAPAERO SAS<br>10, Avenue de la Rijo<br>09103 PAMIERS Cec<br>France |  |
| e-mail address of person<br>responsible for this SDS                | : PSRA_PAMIERS@akzonobel.com                   |
| 1.4 Emergency telephone nu  | mber   |
| National advisory body/Pois   | son Center                                     |
| Telephone number  | : +3130274 8888                                |
| <u>Supplier</u>   |  |
| Telephone number  | : +33 (0)5 34 01 34 01<br>+33 (0)5 61 60 23 30 |

Hours of operation

## **SECTION 2: Hazards identification**

:

| .1 Classification of the  | udstance or mixture                                       |         |
|---------------------------|---|---------|
| Product definition        | : Mixture   |         |
| Classification according  | to Regulation (EC) No. 1272/2008 [CLP/GHS]                |         |
| Mam. Liq. 2, H225         |   |         |
| Eye Irrit. 2, H319        |   |         |
| Skin Sens. 1, H317        |   |         |
| STOT SE 3, H335           |   |         |
| STOT SE 3, H336           |   |         |
| The product is classified | as hazardous according to Regulation (EC) 1272/2008 as am | nended. |
| See Section 16 for the fu | text of the H statements declared above.                  |         |

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 1/20        | AkzoNobel |

# **SECTION 2: Hazards identification**

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

#### 2.2 Label elements

| Hazard | pictograms |
|--------|------------|
|--------|------------|



| Signal word   | :  | Danger  |
|---|----|---|
| Hazard statements   | :  | Highly flammable liquid and vapor.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.   |
| Precautionary statements  |    |   |
| Prevention  | :  | Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor.  |
| Response  | :  | IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off<br>contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of<br>water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES:<br>Rinse cautiously with water for several minutes. Remove contact lenses, if present<br>and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or<br>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   | :  | ethyl acetate<br>n-butyl acetate<br>Hexamethylene diisocyanate, oligomers<br>4-isocyanatosulphonyltoluene<br>hexamethylene-di-isocyanate  |
| Supplemental label<br>elements  | :  | Repeated exposure may cause skin dryness or cracking.<br>Contains isocyanates. May produce an allergic reaction.  |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | :  | Ks from August 24 2023 adequate training is required before industrial or professional use.   |
| Special packaging requirem  | en | ts  |
| Containers to be fitted<br>with child-resistant<br>fastenings   | :  | Not applicable.   |
| Tactile warning of danger   | :  | Not applicable.   |
| 2.3 Other hazards   |    |   |
| Product meets the criteria<br>for PBT or vPvB according<br>to Regulation (EC) No.<br>1907/2006, Annex XIII  | :  | This mixture does not contain any substances that are assessed to be a PBT or a vPvB.   |
| Other hazards which do not result in classification   | :  | None known.   |
| Data of issue (Data of revision   |    | -0.40.0000  |

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:17-10-2022



A1000 HARDENER

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

| 3.2 Mixtures                                | : Mixture   |           |  |  |         |
|---|---|-----------|--|--|---------|
| Product/ingredient name                     | Identifiers   | %         | Classification   | Specific Conc.<br>Limits, M-factors<br>and ATEs  | Туре    |
| ethyl acetate                               | REACH #:<br>01-2119475103-46<br>EC: 205-500-4<br>CAS: 141-78-6<br>Index: 607-022-00-5 | ≥25 - ≤50 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066  | -  | [1] [2] |
| n-butyl acetate                             | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066  | -  | [1] [2] |
| Hexamethylene<br>diisocyanate, oligomers    | REACH #:<br>01-2119485796-17<br>EC: 500-060-2<br>CAS: 28182-81-2                      | ≥25 - ≤50 | Acute Tox. 4, H332<br>Skin Sens. 1, H317<br>STOT SE 3, H335  | ATE [Inhalation<br>(dusts and mists)]<br>= 1.5 mg/l  | [1]     |
| 2-methoxy-1-methylethyl<br>acetate          | REACH #:<br>01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6                        | ≥5 - ≤10  | Flam. Liq. 3, H226<br>STOT SE 3, H336  | -  | [1] [2] |
| Reaction mass of<br>ethylbenzene and xylene | REACH #:<br>01-2119488216-32<br>EC: 905-588-0   | ≥3 - ≤5   | 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 | ATE [Dermal] =<br>1100 mg/kg<br>ATE [Inhalation<br>(gases)] = 5000<br>ppm  | [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<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>STOT SE 3, H335<br>EUH014  | Skin Irrit. 2, H315:<br>C ≥ 5%<br>Eye Irrit. 2, H319:<br>C ≥ 5%<br>STOT SE 3, H335:<br>C ≥ 5%  | [1]     |
| hexamethylene-di-<br>isocyanate             | REACH #:<br>01-2119457571-37<br>EC: 212-485-8<br>CAS: 822-06-0<br>Index: 615-011-00-1 | ≤0.3      | 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  | ATE [Inhalation<br>(dusts and mists)]<br>= $0.5 \text{ mg/l}$<br>Resp. Sens. 1,<br>H334: C $\geq 0.5\%$<br>Skin Sens. 1, H317:<br>C $\geq 0.5\%$ | [1] [2] |
|   |   |           | 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.

| Τ | v | pe |  |
|---|---|----|--|
|   |   |    |  |

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 3/20        | AkzoNobel |

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

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

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

| 4.1 Description of first aid m<br>Eye contact |   |
|---|---|
| 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.<br>If it is suspected that fumes are still present, the rescuer should wear an appropriate<br>mask or self-contained breathing apparatus. If not breathing, if breathing is irregular<br>or if respiratory arrest occurs, provide artificial respiration or oxygen by trained<br>personnel. It may be dangerous to the person providing aid to give mouth-to-mouth<br>resuscitation. Get medical attention. If necessary, call a poison center or physician.<br>If unconscious, place in recovery position and get medical attention immediately.<br>Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or<br>waistband. In case of inhalation of decomposition products in a fire, symptoms may<br>be delayed. The exposed person may need to be kept under medical surveillance<br>for 48 hours. |
| Skin contact                                  | : Wash skin thoroughly with soap and water or use recognized skin cleanser.<br>Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly<br>with water before removing it, or wear gloves. Continue to rinse for at least 10<br>minutes. Get medical attention. In the event of any complaints or symptoms, avoid<br>further exposure. Wash clothing before reuse. Clean shoes thoroughly before<br>reuse.  |
| Ingestion                                     | : Wash out mouth with water. Remove dentures if any. 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 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,

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 4/20        | AkzoNobel |

A1000 HARDENER

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

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:<br>pain or irritation<br>watering<br>redness  |
|--------------|---|
| Inhalation   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |
| 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.<br>The exposed person may need to be kept under medical surveillance for 48 hours. |
|---------------------|--|
| Specific treatments | : No specific treatment.   |

## **SECTION 5: Firefighting measures**

| : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
|--|
| : Do not use water jet.  |
| rom the substance or mixture   |
| <ul> <li>Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion<br/>hazard. In a fire or if heated, a pressure increase will occur and the container may<br/>burst, with the risk of a subsequent explosion.</li> </ul>   |
| : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides  |
|  |
| : 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. |
|  |

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 5/20        | AkzoNobel |

### **SECTION 5: Firefighting measures**

| Special protective<br>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<br>personnel  | :    | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>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).  |
| 6.3 Methods and materials for   | or c | ontainment and cleaning up   |
| Small spill                     | :    | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
| Large spill                     | :    | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. 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.<br>See Section 8 for information on appropriate personal protective equipment.<br>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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be |
|---------------------|---|
|---------------------|---|

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |
|--------------------------------|--------------|-------------|
| Date of previous issue         | : 17-10-2022 | 6/20        |



## **SECTION 7: Handling and storage**

|  | 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   |
|--|---|
| ethyl acetate                            | Ministry of Social Affairs and Employment, Legal limit values |
|  | (Netherlands, 7/2021).  |
|  | STEL,15-min: 1468 mg/m <sup>3</sup> 15 minutes.               |
|  | OEL, 8-h TWA: 734 mg/m <sup>3</sup> 8 hours.                  |
| n-butyl acetate                          | Ministry of Social Affairs and Employment, Legal limit values |
|  | (Netherlands, 7/2021).  |
|  | OEL, 8-h TWA: 241 mg/m <sup>3</sup> 8 hours.                  |
|  | STEL,15-min: 723 mg/m <sup>3</sup> 15 minutes.                |
| 2-methoxy-1-methylethyl acetate          | Ministry of Social Affairs and Employment, Legal limit values |
|  | (Netherlands, 7/2018).  |
|  | OEL, 8-h TWA: 550 mg/m <sup>3</sup> 8 hours.                  |
| Reaction mass of ethylbenzene and xylene | Ministry of Social Affairs and Employment, Legal limit values |
|  | (Netherlands, 12/2019). Absorbed through skin.                |
|  | STEL,15-min: 442 mg/m <sup>3</sup> 15 minutes.                |
|  | OEL, 8-h TWA: 210 mg/m <sup>3</sup> 8 hours.                  |
| hexamethylene-di-isocyanate              | Ministry of Social Affairs and Employment, Legal limit values |
|  | (Netherlands, 7/2021). [cyanides (as CN)] Absorbed through    |
|  | skin.   |
|  | OEL, 8-h TWA: 1 mg/m³, (as CN) 8 hours.                       |
|  | STEL,15-min: 5 mg/m³, (as CN) 15 minutes.                     |

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 7/20        | AkzoNobel |

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

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

#### **DNELs/DMELs**

| Product/ingredient nam      | е Туре      | Exposure          | Value                  | Population | Effects    |
|-----------------------------|-------------|-------------------|------------------------|------------|------------|
| ethyl acetate               | DNEL        | Long term Oral    | 4.5 mg/kg              | General    | Systemic   |
|                             |             |                   | bw/day                 | population | Quartanaia |
|                             | DNEL        | Long term Dermal  | 37 mg/kg               | General    | Systemic   |
|                             | DNE         |                   | bw/day                 | population | 0          |
|                             | DNEL        | Long term Dermal  | 63 mg/kg<br>bw/day     | Workers    | Systemic   |
|                             | DNEL        | Long term         | 367 mg/m <sup>3</sup>  | General    | Local      |
|                             |             | Inhalation        |                        | population |            |
|                             | DNEL        | Long term         | 367 mg/m <sup>3</sup>  | General    | Systemic   |
|                             |             | Inhalation        |                        | population |            |
|                             | DNEL        | Short term        | 734 mg/m <sup>3</sup>  | General    | Local      |
|                             |             | Inhalation        |                        | population |            |
|                             | DNEL        | Short term        | 734 mg/m <sup>3</sup>  | General    | Systemic   |
|                             |             | Inhalation        |                        | population | -          |
|                             | DNEL        | Long term         | 734 mg/m <sup>3</sup>  | Workers    | Local      |
|                             |             | Inhalation        | -                      |            |            |
|                             | DNEL        | Long term         | 734 mg/m <sup>3</sup>  | Workers    | Systemic   |
|                             |             | Inhalation        | -                      |            |            |
|                             | DNEL        | Short term        | 1468 mg/               | Workers    | Local      |
|                             |             | Inhalation        | m³                     |            |            |
|                             | DNEL        | Short term        | 1468 mg/               | Workers    | Systemic   |
|                             |             | Inhalation        | m³                     |            |            |
| n-butyl acetate             | DNEL        | Short term Oral   | 2 mg/kg                | General    | Systemic   |
| 5                           |             |                   | bw/day                 | population | ,          |
|                             | DNEL        | Long term Oral    | 2 mg/kg                | General    | Systemic   |
|                             |             | 0                 | bw/day                 | population | ,          |
|                             | DNEL        | Long term Dermal  | 3.4 mg/kg              | General    | Systemic   |
|                             |             | 5                 | bw/day                 | population | ,          |
|                             | DNEL        | Short term Dermal | 6 mg/kg                | General    | Systemic   |
|                             |             |                   | bw/day                 | population | ,          |
|                             | DNEL        | Long term Dermal  | 7 mg/kg                | Workers    | Systemic   |
|                             |             |                   | bw/day                 | -          | ,          |
|                             | DNEL        | Short term Dermal | 11 mg/kg               | Workers    | Systemic   |
|                             |             |                   | bw/day                 | -          | ,          |
|                             | DNEL        | Long term         | 12 mg/m <sup>3</sup>   | General    | Systemic   |
|                             |             | Inhalation        | 3                      | population | ,          |
|                             | DNEL        | Long term         | 35.7 mg/m <sup>3</sup> | General    | Local      |
|                             |             | Inhalation        | 20.1. mg/m             | population |            |
|                             | DNEL        | Long term         | 48 mg/m <sup>3</sup>   | Workers    | Systemic   |
|                             |             | Inhalation        | . e                    |            | 5,000,000  |
|                             | DNEL        | Short term        | 300 mg/m <sup>3</sup>  | General    | Local      |
|                             |             | Inhalation        | 500 mg/m               | population |            |
|                             | DNEL        | Short term        | 300 mg/m <sup>3</sup>  | General    | Systemic   |
|                             |             | Inhalation        | 500 mg/m               | population | Systemio   |
|                             |             |                   |                        | Population |            |
|                             |             |                   |                        |            | 1          |
| e of issue/Date of revision | : 9-12-2022 |                   | Version                | :3         |            |

| ECTION 8: Exposure controls/personal protection |      |                          |                        |                       |          |
|---|------|--------------------------|------------------------|-----------------------|----------|
|   | DNEL | Long term<br>Inhalation  | 300 mg/m <sup>3</sup>  | Workers               | Local    |
|   | DNEL | Short term<br>Inhalation | 600 mg/m <sup>3</sup>  | Workers               | Local    |
|   | DNEL | Short term<br>Inhalation | 600 mg/m <sup>3</sup>  | Workers               | Systemic |
| Hexamethylene diisocyanate,<br>oligomers        | DNEL | Long term<br>Inhalation  | 0.5 mg/m³              | Workers               | Local    |
| ongomero  | DNEL | Short term<br>Inhalation | 1 mg/m³                | Workers               | Local    |
| Reaction mass of ethylbenzene and xylene        | DNEL | Long term Oral           | 1.6 mg/kg<br>bw/day    | General<br>population | Systemic |
|   | DNEL | Long term<br>Inhalation  | 14.8 mg/m <sup>3</sup> |                       | Systemic |
|   | DNEL | Long term<br>Inhalation  | 77 mg/m³               | Workers               | Systemic |
|   | DNEL | Long term Dermal         | 108 mg/kg<br>bw/day    | General<br>population | Systemic |
|   | DNEL | Long term Dermal         | 180 mg/kg<br>bw/day    | Workers               | Systemic |
|   | DNEL | Short term<br>Inhalation | 289 mg/m <sup>3</sup>  | Workers               | Local    |
|   | DNEL | Short term<br>Inhalation | 289 mg/m³              | Workers               | Systemic |
| 4-isocyanatosulphonyltoluene                    | DNEL | Long term Oral           | 0.46 mg/<br>kg bw/day  | General<br>population | Systemic |
|   | DNEL | Long term Dermal         | 0.46 mg/<br>kg bw/day  | General<br>population | Systemic |
|   | DNEL | Long term<br>Inhalation  | 0.8 mg/m <sup>3</sup>  | General<br>population | Systemic |
|   | DNEL | Long term Dermal         | 0.92 mg/<br>kg bw/day  | Workers               | Systemic |
|   | DNEL | Long term<br>Inhalation  | 3.24 mg/m <sup>3</sup> | Workers               | Systemic |
| hexamethylene-di-isocyanate                     | DNEL | Long term<br>Inhalation  | 0.035 mg/<br>m³        | Workers               | Local    |
|   | DNEL | Short term<br>Inhalation | 0.07 mg/m <sup>3</sup> | Workers               | Local    |

#### **PNECs**

No PNECs available.

### 8.2 Exposure controls

| Appropriate engineering : | Use only with adequate ventilation. Use process enclosures, local exhaust   |
|---------------------------|---|
| controls                  | 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,<br/>before eating, smoking and using the lavatory and at the end of the working period.<br/>Appropriate techniques should be used to remove potentially contaminated clothing.<br/>Contaminated work clothing should not be allowed out of the workplace. Wash<br/>contaminated clothing before reusing. Ensure that eyewash stations and safety<br/>showers are close to the workstation location.



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

| 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<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Considering the parameters specified by the glove manufacturer,<br>check during use that the gloves are still retaining their protective properties. It<br>should be noted that the time to breakthrough for any glove material may be<br>different for different glove manufacturers. In the case of mixtures, consisting of<br>several substances, the protection time of the gloves cannot be accurately<br>estimated. |
|                                 | 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.   |
| Body protection                 | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves. Refer to<br>European Standard EN 1149 for further information on material and design<br>requirements and test methods.  |
| Other skin protection           | <ul> <li>Appropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>approved by a specialist before handling this product.</li> </ul>   |
| Respiratory protection          | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.  |
| 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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

| <u>Appearance</u>                          |   |
|--|---|
| Physical state                             | : Liquid.                                   |
| Color                                      | : Colorless.                                |
| Odor                                       | : Characteristic.                           |
| Odor threshold                             | : Not available.                            |
| Melting point/freezing point               | : Not available.                            |
| Initial boiling point and<br>boiling range | : Not available.                            |
| Flammability                               | : Not available.                            |
| Lower and upper explosion limit            | : Not available.                            |
| Flash point                                | : Йosed cup: 18°C (64.4°F) [Pensky-Martens] |
| Auto-ignition temperature                  | :   |

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 10/20       | AkzoNobel |

A1000 HARDENER

| Ingredient name                          |           | °C             | °F                                    | Method                           |  |
|--|-----------|----------------|---------------------------------------|----------------------------------|--|
| methoxy-1-methylethyl acetate            |           | 333            | 631.4                                 |                                  |  |
| n-butyl acetate                          |           | 415            | 779                                   | EU A.15                          |  |
| ethyl acetate                            |           | 426.67         | 800                                   |                                  |  |
| Reaction mass of ethylbenzene and xylene |           | 432            | 809.6                                 |                                  |  |
| hexamethylene-di-isocyanate              |           | 454            | 849.2                                 |                                  |  |
| chlorobenzene                            |           | 590            | 1094                                  |                                  |  |
| Decomposition temperature                | : Not ava | ilable.        |                                       |                                  |  |
| Н  | : Not ava | ilable. [DIN E | EN 1262]                              |                                  |  |
|  |           |                | nperature): 11 mm<br>mm²/s [DIN EN IS | ²/s [DIN EN ISO 3219]<br>O 3219] |  |
| Solubility(ies)                          | :         |                |                                       |                                  |  |
| <b></b>                                  |           | 4              |                                       |                                  |  |

| Media              | Result                      |
|--------------------|-----------------------------|
| <b>⊭o</b> ld water | Not soluble [OESO (TG 105)] |

# Partition coefficient: n-octanol/ : Not applicable. water

1

#### Vapor pressure

| Ingredient name<br>othyl acetate<br>n-butyl acetate<br>chlorobenzene<br>Reaction mass of ethylbenzene<br>and xylene<br>2-methoxy-1-methylethyl acetate | mm Hg    | 1-0-                      |                  |       |     |        |
|--|----------|---------------------------|------------------|-------|-----|--------|
| n-butyl acetate<br>chlorobenzene<br>Reaction mass of ethylbenzene<br>and xylene  |          | kPa                       | Method           | mm Hg | kPa | Method |
| chlorobenzene<br>Reaction mass of ethylbenzene<br>and xylene   | 81.59    | 10.9                      |                  |       |     |        |
| Reaction mass of ethylbenzene<br>and xylene  | 11.25    | 1.5                       | DIN EN 13016-2   |       |     |        |
| and xylene   | 8.8      | 1.2                       |                  |       |     |        |
| 2-methoxy-1-methylethyl acetate  | 6.7      | 0.89                      |                  |       |     |        |
|  | 2.7      | 0.36                      |                  |       |     |        |
| hexamethylene-di-isocyanate  | 0.01     | 0.0013                    |                  |       |     |        |
| 2,6-di-tert-butyl-p-cresol   | 0.01     | 0.0013                    |                  |       |     |        |
| tosyl chloride   | 0.00098  | 0.00013                   |                  |       |     |        |
| 4-isocyanatosulphonyltoluene   | 0.00019  | 0.000025                  |                  |       |     |        |
| Hexamethylene diisocyanate,<br>oligomers   | 0.000018 | 0.0000024                 | EU A.4           |       |     |        |
| ensity   | : 0.95   | 51 g/cm <sup>3</sup> [DIN | I EN ISO 2811-1] |       | •   |        |
| apor density   | : Not    | available.                |                  |       |     |        |

Particle characteristics Median particle size

: Not applicable.

# **SECTION 10: Stability and reactivity**

| 10.1 Reactivity                            | : No specific test data re | elated to reactivity available for this product or its ingredients |
|--|----------------------------|--|
| 10.2 Chemical stability                    | : The product is stable.   |  |
| 10.3 Possibility of<br>hazardous reactions | : Under normal conditior   | ns of storage and use, hazardous reactions will not occur.         |
| Date of issue/Date of revision             | · 9-12-2022                | Version : 3  |

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 11/20       | AkzoNobel |

# **SECTION 10: Stability and reactivity**

| 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<br>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 |
|------------------------------|---------------------------|------------|-------------------------|----------|
| ethyl acetate                | LC50 Inhalation Gas.      | Rat        | 1600 ppm                | 8 hours  |
|                              | LC50 Inhalation Vapor     | Mouse      | 45 g/m³                 | 2 hours  |
|                              | LD50 Intraperitoneal      | Mouse      | 709 mg/kg               | -        |
|                              | LD50 Oral                 | Guinea pig | 5.5 g/kg                | -        |
|                              | LD50 Oral                 | Guinea pig | 5500 mg/kg              | -        |
|                              | LD50 Oral                 | Mouse      | 4.1 g/kg                | -        |
|                              | LD50 Oral                 | Mouse      | 4100 mg/kg              | -        |
|                              | LD50 Oral                 | Rabbit     | 4935 mg/kg              | -        |
|                              | LD50 Oral                 | Rat        | 5620 mg/kg              | -        |
|                              | LD50 Subcutaneous         | Guinea pig | 3 g/kg                  | -        |
| n-butyl acetate              | LC50 Inhalation Gas.      | Rat        | 390 ppm                 | 4 hours  |
| -                            | LC50 Inhalation Vapor     | Mouse      | 6 g/m <sup>3</sup>      | 2 hours  |
|                              | LD50 Dermal               | Rabbit     | >17600 mg/kg            | -        |
|                              | LD50 Intraperitoneal      | Mouse      | 1230 mg/kg              | -        |
|                              | LD50 Oral                 | Guinea pig | 4700 mg/kg              | -        |
|                              | LD50 Oral                 | Mouse      | 6 g/kg                  | -        |
|                              | LD50 Oral                 | Rabbit     | 3200 mg/kg              | -        |
|                              | LD50 Oral                 | Rat        | 10768 mg/kg             | -        |
| Hexamethylene                | LC50 Inhalation Dusts and | Rat        | 18500 mg/m <sup>3</sup> | 1 hours  |
| diisocyanate, oligomers      | mists                     |            | Ū                       |          |
| Reaction mass of             | LC50 Inhalation Gas.      | Rat        | 5000 ppm                | 4 hours  |
| ethylbenzene and xylene      |                           |            |                         |          |
| 4-isocyanatosulphonyltoluene | LD50 Intraperitoneal      | Rat        | 775 mg/kg               | -        |
|                              | LD50 Oral                 | Rat        | 2234 mg/kg              | -        |
| hexamethylene-di-            | LC50 Inhalation Dusts and | Rat        | 124 mg/m <sup>3</sup>   | 4 hours  |
| isocyanate                   | mists                     |            | °,                      |          |
|                              | LC50 Inhalation Dusts and | Rat        | 462 mg/m <sup>3</sup>   | 4 hours  |
|                              | mists                     |            |                         |          |
|                              | 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



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# **SECTION 11: Toxicological information**

| Product/ingredient name        | Result                   | Species | Score | Exposure           | Observation |
|--------------------------------|--------------------------|---------|-------|--------------------|-------------|
| n-butyl acetate                | Eyes - Moderate irritant | Rabbit  | -     | 100 mg             | -           |
| -                              | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500       | -           |
|                                |                          |         |       | mg                 |             |
| Hexamethylene                  | Eyes - Moderate irritant | Rabbit  | -     | 100 mg             | -           |
| diisocyanate, oligomers        | Skin - Moderate irritant | Rabbit  | _     | 500 mg             | _           |
| Reaction mass of               | Eyes - Mild irritant     | Rabbit  |       | 87 mg              | -           |
| ethylbenzene and xylene        |                          |         |       | or mg              |             |
| 5                              | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5         | -           |
|                                |                          |         |       | mg                 |             |
|                                | Skin - Mild irritant     | Rat     | -     | 8 hours 60 UI      | -           |
|                                | Skin - Moderate irritant | Rabbit  | -     | 100 %              | -           |
|                                | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>mg | -           |
| 4-isocyanatosulphonyltoluene   | Eyes - Moderate irritant | Rabbit  | _     | 100 UI             | -           |
| , i ,                          | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500       | -           |
|                                |                          |         |       | UI                 |             |
| Conclusion/Summary             | : Not available.         |         |       |                    |             |
| <u>Sensitization</u>           |                          |         |       |                    |             |
| 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.         |         |       |                    |             |
| Spacific target organ toxicity | (single experies)        |         |       |                    |             |

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

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

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 13/20       | AkzoNobel |

A1000 HARDENER

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|---|---|
| <b>SECTION 11: Toxico</b>                             | logical information   |
| Information on the likely routes of exposure          | : Not available.  |
| Potential acute health effect                         | <u>s</u>  |
| Eye contact   | : Causes serious eye irritation.  |
| Inhalation  | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.   |
| Skin contact  | : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.  |
| Ingestion   | : Can cause central nervous system (CNS) depression.  |
| Symptoms related to the phy                           | vsical, chemical and toxicological characteristics  |
| Eye contact   | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |
| Inhalation  | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness                         |
| Skin contact  | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |
| Ingestion   | : No specific data.   |
| Delayed and immediate effect<br>Short term exposure   | cts and also chronic effects from short and long term exposure  |
| Potential immediate<br>effects                        | : Not available.  |
| Potential delayed effects                             | : Not available.  |
| Long term exposure                                    |   |
| Potential immediate<br>effects                        | : Not available.  |
| Potential delayed effects                             | : Not available.  |
| <b>Potential chronic health eff</b><br>Not available. | ects  |
| Conclusion/Summary                                    | : Not available.  |
| General   | : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/<br>or dermatitis. Once sensitized, a severe allergic reaction may occur when<br>subsequently exposed to very low levels. |
| Carcinogenicity                                       | : No known significant effects or critical hazards.   |
| Mutagenicity  | : No known significant effects or critical hazards.   |
| Reproductive toxicity                                 | : No known significant effects or critical hazards.   |
|   |   |

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 14/20       | AkzoNobel |

A1000 HARDENER

## **SECTION 11: Toxicological information**

Not available.

#### 11.2.2 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 not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

| Product/ingredient name                  | Result                               | Species                                | Exposure |
|--|--------------------------------------|--|----------|
| ethyl acetate                            | Acute EC50 2500000 µg/l Fresh water  | Algae - Selenastrum sp.                | 96 hours |
|  | Acute LC50 1600000 µg/l Fresh water  | Crustaceans - Asellus aquaticus        | 48 hours |
|  | Acute LC50 750000 µg/l Fresh water   | Crustaceans - Gammarus pulex           | 48 hours |
|  | Acute LC50 175000 µg/l Fresh water   | Daphnia - Daphnia cucullata            | 48 hours |
|  | Acute LC50 154000 µg/l Fresh water   | Daphnia - Daphnia cucullata            | 48 hours |
|  | Acute LC50 560000 µg/l Fresh water   | Daphnia - Daphnia magna                | 48 hours |
|  | Acute LC50 230000 µg/l Fresh water   | Daphnia - Daphnia pulex                | 48 hours |
|  | Acute LC50 295000 µg/l Fresh water   | Daphnia - Daphnia pulex                | 48 hours |
|  | Acute LC50 212500 µg/l Fresh water   | Fish - Heteropneustes fossilis         | 96 hours |
|  | Acute LC50 484000 µg/l Fresh water   | Fish - Oncorhynchus mykiss -           | 96 hours |
|  |                                      | Juvenile (Fledgling, Hatchling,        |          |
|  |                                      | Weanling)                              |          |
|  | Acute LC50 425300 µg/l Fresh water   | Fish - Oncorhynchus mykiss -           | 96 hours |
|  |                                      | Juvenile (Fledgling, Hatchling,        |          |
|  | A suite LOEO 220000 us// Erech water | Weanling)                              |          |
|  | Acute LC50 230000 µg/l Fresh water   | Fish - Pimephales promelas             | 96 hours |
|  | Chronic NOEC 12 mg/l Fresh water     | Daphnia - Daphnia magna                | 21 days  |
|  | Chronic NOEC 2400 µg/l Fresh water   | Daphnia - Daphnia magna                | 21 days  |
|  | Chronic NOEC 75.6 mg/l Fresh water   | Fish - Pimephales promelas -<br>Embryo | 32 days  |
| n-butyl acetate                          | Acute LC50 32 mg/l Marine water      | Crustaceans - Artemia salina           | 48 hours |
| -  | Acute LC50 62000 µg/l Fresh water    | Fish - Danio rerio                     | 96 hours |
|  | Acute LC50 100000 µg/l Fresh water   | Fish - Lepomis macrochirus             | 96 hours |
|  | Acute LC50 185000 µg/l Marine water  | Fish - Menidia beryllina               | 96 hours |
|  | Acute LC50 18000 µg/l Fresh water    | Fish - Pimephales promelas             | 96 hours |
| Reaction mass of ethylbenzene and xylene | Acute LC50 13400 µg/l Fresh water    | Fish - Pimephales promelas             | 96 hours |

**Conclusion/Summary** 

: Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

| Product/ingredient name                  | LogPow      | BCF         | Potential |
|--|-------------|-------------|-----------|
| ethyl acetate                            | 0.68        | 30          | low       |
| n-butyl acetate                          | 2.3         | -           | low       |
| Hexamethylene<br>diisocyanate, oligomers | 5.54        | 367.7       | low       |
| 2-methoxy-1-methylethyl acetate          | 1.2         | -           | low       |
| Reaction mass of ethylbenzene and xylene | 3.12        | 8.1 to 25.9 | low       |
| Date of issue/Date of revision           | : 9-12-2022 | Version : 3 |           |
| Date of previous issue                   | :17-10-2022 | 15/20       | AkzoNobel |

A1000 HARDENER

| <b>SECTION 12: Ecological information</b> | on    |     |  |
|---|-------|-----|--|
| hexamethylene-di-isocyanate 0.02          | 57.63 | low |  |

| Soil/water partition<br>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 Endocrine disrupting properties

Not available.

#### 12.7 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

| <u>Product</u>          |   |
|-------------------------|---|
| Methods of disposal     | : The generation of waste should be avoided or minimized wherever possible.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation and<br>any regional local authority requirements. Dispose of surplus and non-recyclable<br>products via a licensed waste disposal contractor. Waste should not be disposed of<br>untreated to the sewer unless fully compliant with the requirements of all authorities<br>with jurisdiction. |
| Hazardous waste         | : The classification of the product may meet the criteria for a hazardous waste.  |
| Disposal considerations | <ul> <li>Do not allow to enter drains or watercourses. Residues in empty containers should<br/>be neutralized with a decontaminant (see section 6).</li> <li>Dispose of according to all federal, state and local applicable regulations.</li> <li>If this product is mixed with other wastes, the original waste product code may no<br/>longer apply and the appropriate code should be assigned.</li> <li>For further information, contact your local waste authority.</li> </ul>  |

#### 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     | <ul> <li>The generation of waste should be avoided or minimized wherever possible. Waste<br/>packaging should be recycled. Incineration or landfill should only be considered<br/>when recycling is not feasible.</li> </ul>  |  |
| Disposal considerations | <ul> <li>Using information provided in this safety data sheet, advice should be obtained from<br/>the relevant waste authority on the classification of empty containers.<br/>Empty containers must be scrapped or reconditioned.<br/>Dispose of containers contaminated by the product in accordance with local or<br/>national legal provisions.</li> </ul> |  |

A1000 HARDENER

#### **SECTION 13: Disposal considerations**

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<br>or ID 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   | II  | 11                                 | 11   |
| 14.5<br>Environmental<br>hazards  | No.   | No.                                | No.  |
| Additional informa  | tion  |                                    | •  |
| ADR/RID : <u>Special provisions</u> 640 (C)<br><u>Tunnel code</u> (D/E) |   |                                    |  |
| IMDG  | : Emergency schee   |                                    |  |
| 14.6 Special precau<br>user   | tions for : Transport within<br>upright and secure<br>the event of an acc | e. Ensure that persons transportir | ort in closed containers that are<br>ng the product know what to do in |

| 14.7 Maritime transport in | : Not applicable. |
|----------------------------|-------------------|
| bulk according to IMO      |                   |
| instruments                |                   |

## **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### 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.



# **SECTION 15: Regulatory information**

| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market<br>and use of certain<br>dangerous substances,<br>mixtures and articles | : Ks from August 24 2023 adequate training is required before industrial or professional use.  |
|---|--|
| 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<br>Mixture  | : Not available.   |
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Air   | : Not listed   |
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Water   | : Not listed   |
| Ozone depleting substance   | <u>es (1005/2009/EU)</u>   |
| Not listed.   |  |
| Prior Informed Consent (Pl<br>Not listed.   | <u>C) (649/2012/EU)</u>  |
| Persistent Organic Polluta<br>Not listed.   | nts  |

Seveso Directive

This product is controlled under the Seveso Directive.

|     | p    |       | 00110 |
|-----|------|-------|-------|
| Dai | naer | crite | ria   |

| Danger citteria                          |  |  |                                   |            |
|--|--|--|-----------------------------------|------------|
| Category                                 |  |  |                                   |            |
| P5c                                      |  |  |                                   |            |
| Industrial use                           | : The information conta<br>own assessment of w<br>legislation. The provis<br>to the use of this prod | orkplace risks, as requisions of the national he | uired by other health             | and safety |
| Product/ingredient name                  | List name  | Name on list                                     | Classification                    | Notes      |
| Reaction mass of ethylbenzene and xylene | Netherlands<br>Reprotoxic Chemicals  | xyleen   | Dev.<br>development<br>category 2 | -          |

Water Discharge Policy<br/>(ABM): A(4) Low hazard for aquatic organisms, may have long-term hazardous effects in<br/>aquatic environment. Decontamination effort: A

#### 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.

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 18/20       | AkzoNobel |

A1000 HARDENER

### **SECTION 15: Regulatory information**

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

### Inventory list

| Eurasian Economic Union | : Russian Federation inventory: Not determined. |
|-------------------------|---|
|-------------------------|---|

| 15.2 Chemical Safety | : No Chemical Safety Assessment has been carried out. |
|----------------------|---|
|----------------------|---|

Assessment

## **SECTION 16: Other information**

| Indicates information that has changed from previously issued | l version. |
|---|------------|
|---|------------|

| Abbreviations and | : ATE = Acute Toxicity Estimate  |  |
|-------------------|--|--|
| acronyms          | CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] |  |
|                   | DMEL = Derived Minimal Effect Level  |  |
|                   | DNEL = Derived Nimital Lifect 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         |
|---------------------------|-----------------------|
| <b>F</b> am. Liq. 2, H225 | On basis of test data |
| Eye Irrit. 2, H319        | Calculation method    |
| Skin Sens. 1, H317        | Calculation method    |
| STOT SE 3, H335           | Calculation method    |
| STOT SE 3, H336           | Calculation method    |

#### Full text of abbreviated H statements

| H225   | 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.                                |
| 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]

| Date of issue/Date of revision | : 9-12-2022  | Version : 3 |           |
|--------------------------------|--------------|-------------|-----------|
| Date of previous issue         | : 17-10-2022 | 19/20       | AkzoNobel |

| 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  |
| 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<br>Skin Irrit. 2 |                   | RESPIRATORY SENSITIZATION - Category 1                                    |
| Skin Sens. 1                   |                   | SKIN CORROSION/IRRITATION - Category 2<br>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  |
| Date of printing               | : 9 December 2022 |   |
| Date of issue/ Date of         | : 9 December 2022 |   |
| revision                       |                   |   |
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| Version                        | : 3               |   |
| Unique ID                      | :                 |   |
| Notice to reader               |                   |   |

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