MASTER

Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# HARDENER FOR CLEAR COAT HS 1:2 SLOW

|      | 10/02/2023         Date of compilation: 26/06/2011         Revised: 14/01/2022         Version: 4 (Replaced 3)   |
|------|--|
| SECT | TON 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING  |
| 1.1  | Product identifier: HARDENER FOR CLEAR COAT HS 1:2 SLOW  |
|      | Other means of identification:   |
|      | <b>UFI:</b> XPFH-F06T-N00Q-C65A  |
| 1.2  | Relevant identified uses of the substance or mixture and uses advised against:   |
|      | Relevant uses: Car repair; hardener for coatings. For professional users only.   |
|      | Uses advised against: All uses not specified in this section or in section 7.3   |
| 1.3  | Details of the supplier of the safety data sheet:  |
|      | Troton Sp. z o.o.<br>Ząbrowo 14A   |
|      | 78-120 Gościno - Zachodniopomorskie - Polska   |
|      | Phone: +48 94 35 123 94 - Fax: +48 94 35 126 22  |
|      | troton@troton.com.pl<br>www.troton.pl / www.troton.eu  |
| 1.4  | Emergency telephone number: (8am-4pm)+48 094 35 123 94; 112  |
|      |  |
| SECT | ION 2: HAZARDS IDENTIFICATION  |
| 2.1  | Classification of the substance or mixture:  |
|      | CLP Regulation (EC) No 1272/2008:  |
|      | Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.   |
|      | Acute Tox. 4: Acute inhalation toxicity, Category 4, H332  |
|      | Flam. Liq. 3: Flammable liquids, Category 3, H226  |
|      | Skin Sens. 1: Sensitisation, skin, Category 1, H317<br>STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335                                      |
|      | STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336   |
| 2.2  | Label elements:  |
|      | CLP Regulation (EC) No 1272/2008:  |
|      | Warning  |
|      |  |
|      | Hazard statements:   |
|      | Acute Tox. 4: H332 - Harmful if inhaled.   |
|      | Flam. Liq. 3: H226 - Flammable liquid and vapour.<br>Skin Sens. 1: H317 - May cause an allergic skin reaction.   |
|      | STOT SE 3: H335 - May cause respiratory irritation.  |
|      | STOT SE 3: H336 - May cause drowsiness or dizziness.  Precautionary statements:  |
|      | P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.   |
|      | P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.  |
|      | P302+P352: IF ON SKIN: Wash with plenty of water.  |
|      | P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P403+P233: Store in a well-ventilated place. Keep container tightly closed. |
|      | P403+P235: Store in a well-ventilated place. Keep cool.  |
|      | P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.                                 |
|      | Supplementary information:   |
|      | EUH066: Repeated exposure may cause skin dryness or cracking.  |
|      | EUH204: Contains isocyanates. May produce an allergic reaction.  |
|      | Substances that contribute to the classification   |
|      | Hexamethylene diisocyanate, oligomers; N-butyl acetate; 2-butoxyethyl acetate; Xylene  |
|      | Additional Labelling:  |
|      | As from 24 August 2023 adequate training is required before industrial or professional use.  |



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|----------|--|---|--|---|------------------------------|-------------------------|---------------|--|--|--|
| SECT     | tion 2   | : Hazards II  | DENTIFICATION (co  | ontinued)   |                              |                         |               |  |  |  |
| 2.3      | Produ  |   | PBT/vPvB criteria<br>properties: The produc                      | t fails to meet the cri   | teria.                       |                         |               |  |  |  |
| SECT     | tion 3   | : COMPOSITI   | ON/INFORMATION   | ON INGREDIENT   | S                            |                         |               |  |  |  |
| 3.1      | Subs   | tance:  |  |   |                              |                         |               |  |  |  |
|          | Non-a  | pplicable   |  |   |                              |                         |               |  |  |  |
| 3.2      | Mixtu  | ıre:  |  |   |                              |                         |               |  |  |  |
|          | Chen   | nical descriptio  | on: Mixture composed   | of chemical products  | 5                            |                         |               |  |  |  |
|          | Com  | ponents:  |  |   |                              |                         |               |  |  |  |
|          | In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains: |   |  |   |                              |                         |               |  |  |  |
|          |  | Identification  |  | Chemic  | al name/Classification       |                         | Concentration |  |  |  |
|          | CAS:<br>EC:  | 28182-81-2  | Hexamethylene diise  | ocyanate, oligomers <sup>(1)</sup>  |                              | Self-classifie          | d             |  |  |  |
|          | Index:   | : 931-274-8<br>dex: Non-applicable<br>ACH: 01-2119485796-17-<br>XXXX  | Regulation 1272/2008   | Acute Tox. 4: H332; Skin Se   | ens. 1: H317; STOT SE 3: H33 | 5 - Warning             | 50 - <75 %    |  |  |  |
|          | CAS:   | 123-86-4  | N-butyl acetate <sup>(1)</sup>                                   |   |                              | ATP CLP00               |               |  |  |  |
|          |  | 204 650 4   |  |   |                              |                         |               |  |  |  |
|          |  | 204-658-1<br>607-025-00-1<br>: 01-2119485493-29-<br>XXXX  | Regulation 1272/2008   | Flam. Liq. 3: H226; STOT S  | E 3: H336; EUH066 - Warning  |                         | 10 - <25 %    |  |  |  |
|          | REACH  | 607-025-00-1<br>: 01-2119485493-29-<br>XXXX<br>112-07-2   | Regulation 1272/2008<br>2-butoxyethyl aceta                      |   | E 3: H336; EUH066 - Warning  | () (<br>ATP CLP00       | 10 - <25 %    |  |  |  |
|          | REACH<br>CAS:<br>EC:<br>Index:   | 607-025-00-1<br>: 01-2119485493-29-<br>XXXX   |  |   |                              | • •                     | 5 - <10 %     |  |  |  |
|          | REACH<br>CAS:<br>EC:<br>Index:<br>REACH<br>CAS:  | 607-025-00-1<br>: 01-2119485493-29-<br>XXXX<br>112-07-2<br>203-933-3<br>607-038-00-2<br>: 01-2119475112-47-<br>XXXX<br>108-65-6   | 2-butoxyethyl aceta  | <b>te<sup>(1)</sup></b><br>Acute Tox. 4: H312+H332 -                            |                              | ATP CLP00               | 5 - <10 %     |  |  |  |
|          | CAS:<br>EC:<br>Index:<br>REACH<br>CAS:<br>EC:<br>Index:                                      | 607-025-00-1<br>: 01-2119485493-29-<br>XXXX<br>112-07-2<br>203-933-3<br>607-038-00-2<br>: 01-2119475112-47-<br>XXXX   | 2-butoxyethyl aceta<br>Regulation 1272/2008                      | <b>te<sup>(1)</sup></b><br>Acute Tox. 4: H312+H332 -                            | - Warning                    | ATP CLP00               | 5 - <10 %     |  |  |  |
|          | CAS:<br>EC:<br>Index:<br>REACH<br>CAS:<br>EC:<br>Index:                                      | 607-025-00-1<br>: 01-2119485493-29-<br>XXXX<br>112-07-2<br>203-933-3<br>607-038-00-2<br>: 01-2119475112-47-<br>XXXX<br>108-65-6<br>203-603-9<br>607-195-00-7<br>: 01-2119475791-29- | 2-butoxyethyl aceta<br>Regulation 1272/2008<br>2-methoxy-1-methy | te <sup>(1)</sup><br>Acute Tox. 4: H312+H332 -<br>lethyl acetate <sup>(2)</sup> | - Warning                    | ATP CLP00               | 5 - <10 %     |  |  |  |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878
<sup>(2)</sup> Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

# SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

# By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

## By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:



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|------------|--|--|----------------------------------|---|
| SEC        | TION 4: FIRST A  | ID MEASURES (continued)  |                                  |   |
|            | If the injured per   | rson uses contact lenses, these should<br>mage. In all cases, after cleaning, a d  | d be removed unless they are s   | person affected to rub or close their eyes.<br>tuck to the eyes, in which case this could<br>uickly as possible with the SDS of the |
| 4.2        | Do not induce vo<br>out the mouth ar   | -  | ected during ingestion.          | . Keep the person affected at rest. Rinse   |
|            | •  | ed effects are indicated in sections 2 a   | •                                |   |
| 4.3        | ,  | ny immediate medical attention a   |                                  | ed:   |
| _          | Non-applicable   | •  |                                  |   |
|            |  |  |                                  |   |
| SEC        | TION 5. FIREFIG  | HTING MEASURES   |                                  |   |
| <b>F</b> 4 | 11014 21 11(C) 10  |  |                                  |   |
| 5.1        | Extinguishing n  | nedia:   |                                  |   |
| 5.1        |  |  |                                  |   |
| 5.1        | Extinguishing n<br>Suitable exting   | uishing media:   | BC powder), alternatively use fo | oam or carbon dioxide extinguishers (CO2).  |
| 5.1        | Extinguishing n<br>Suitable exting<br>If possible use po   | uishing media:   | BC powder), alternatively use fo | oam or carbon dioxide extinguishers (CO2).  |
| 5.1        | Extinguishing n<br>Suitable exting<br>If possible use po<br>Unsuitable exti  | <b>uishing media:</b><br>Nyvalent powder fire extinguishers (Al  |                                  | oam or carbon dioxide extinguishers (CO2).  |
| 5.1        | Extinguishing n<br>Suitable exting<br>If possible use po<br>Unsuitable exti<br>IT IS RECOMMEN  | uishing media:<br>olyvalent powder fire extinguishers (Al<br>nguishing media:  | extinguishing agent.             | oam or carbon dioxide extinguishers (CO2).  |
| _          | Extinguishing n<br>Suitable exting<br>If possible use po<br>Unsuitable exti<br>IT IS RECOMMEN<br>Special hazards<br>As a result of com | uishing media:<br>blyvalent powder fire extinguishers (Al<br>nguishing media:<br>IDED NOT to use full jet water as an of<br>a arising from the substance or m<br>inbustion or thermal decomposition rea<br>in present a serious health risk. | extinguishing agent.             | , , , , , , , , , , , , , , , , , , ,   |

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

## For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

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

## It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

## 6.4 Reference to other sections:

See sections 8 and 13.



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|      |  | Date of compilation: 26/06/2011  | Revised: 14/01/2022   | Version: 4 (Replaced 3)  |
|------|--|--|---|--|
| SECT | ION 7: HANDLING  | G AND STORAGE  |   |  |
| 7.1  | Precautions for sa   | afe handling:  |   |  |
|      | A General precaut  | ions for safe use  |   |  |
|      | spills and residu<br>cleanliness when  | les, destroying them with safe met<br>re dangerous products are used.  | hods (section 6). Avoid leakage   | eep containers hermetically sealed. Control s from the container. Maintain order and   |
|      | B Technical recom  | nmendations for the prevention of  | fires and explosions  |  |
|      | sparks,) and v<br>inertization syste<br>possibility of ele<br>clothes made of<br>requirements fo<br>protecting the se<br>10 for conditions | ventilate during cleaning operations<br>ems where possible. Transfer at a<br>ectrostatic charges: ensure a perfect<br>acrylic fibres, preferably wearing of<br>r equipment and systems defined | Avoid the existence of danger<br>slow speed to avoid the creation<br>ct equipotential connection, alwa<br>cotton clothing and conductive f<br>in Directive 2014/34/EC (ATEX 1<br>er the selection criteria of Direct<br>ided. | trol sources of ignition (mobile phones,<br>ous atmospheres inside containers, applying<br>n of electrostatic charges. Against the<br>ays use groundings, do not wear work<br>footwear. Comply with the essential security<br>100) and with the minimum requirements for<br>ive 1999/92/EC (ATEX 137). Consult section |
|      | Do not eat or dr   | rink during the process, washing h   | ands afterwards with suitable cl  | eaning products.   |
|      | D Technical recom  | nmendations to prevent environme   | ntal risks  |  |
|      | It is recommend  | led to have absorbent material ava   | ailable at close proximity to the   | product (See subsection 6.3)   |
| 7.2  | Conditions for sat   | fe storage, including any incon  | npatibilities:  |  |
|      | A Technical measu  | ures for storage   |   |  |
|      | Minimum Temp.  | .: 15 °C   |   |  |
|      | Maximum Temp   | o.: 25 ℃   |   |  |
|      | Maximum time:  | 12 Months  |   |  |
|      | B General condition  | ons for storage  |   |  |
|      | Avoid sources of   | f heat, radiation, static electricity a  | nd contact with food. For additi  | ional information see subsection 10.5  |
| 7.3  | Specific end use(  | s):  |   |  |
|      | Except for the instrup product.  | uctions already specified it is not n  | ecessary to provide any special   | recommendation regarding the uses of this  |
|      |  |  |   |  |
|      |  | E CONTROLS/PERSONAL PRC  |   |  |

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification                  | Occupational exposure limits |         |                       |  |
|---------------------------------|------------------------------|---------|-----------------------|--|
| N-butyl acetate                 | IOELV (8h)                   | 50 ppm  | 241 mg/m <sup>3</sup> |  |
| CAS: 123-86-4 EC: 204-658-1     | IOELV (STEL)                 | 150 ppm | 723 mg/m <sup>3</sup> |  |
| 2-butoxyethyl acetate           | IOELV (8h)                   | 20 ppm  | 133 mg/m <sup>3</sup> |  |
| CAS: 112-07-2 EC: 203-933-3     | IOELV (STEL)                 | 50 ppm  | 333 mg/m <sup>3</sup> |  |
| 2-methoxy-1-methylethyl acetate | IOELV (8h)                   | 50 ppm  | 275 mg/m <sup>3</sup> |  |
| CAS: 108-65-6 EC: 203-603-9     | IOELV (STEL)                 | 100 ppm | 550 mg/m <sup>3</sup> |  |
| Xylene                          | IOELV (8h)                   | 50 ppm  | 221 mg/m <sup>3</sup> |  |
| CAS: 1330-20-7 EC: 215-535-7    | IOELV (STEL)                 | 100 ppm | 442 mg/m <sup>3</sup> |  |

## DNEL (Workers):

|                                       |            | Short exposure |                     | Long exposure  |                       |
|---------------------------------------|------------|----------------|---------------------|----------------|-----------------------|
| Identification                        |            | Systemic       | Local               | Systemic       | Local                 |
| Hexamethylene diisocyanate, oligomers | Oral       | Non-applicable | Non-applicable      | Non-applicable | Non-applicable        |
| CAS: 28182-81-2                       | Dermal     | Non-applicable | Non-applicable      | Non-applicable | Non-applicable        |
| EC: 931-274-8                         | Inhalation | Non-applicable | 1 mg/m <sup>3</sup> | Non-applicable | 0,5 mg/m <sup>3</sup> |



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

|                                 | Short      | exposure              | Long                  | exposure              |                       |
|---------------------------------|------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Identification                  |            | Systemic              | Local                 | Systemic              | Local                 |
| N-butyl acetate                 | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
| CAS: 123-86-4                   | Dermal     | 11 mg/kg              | Non-applicable        | 11 mg/kg              | Non-applicable        |
| EC: 204-658-1                   | Inhalation | 600 mg/m <sup>3</sup> | 600 mg/m <sup>3</sup> | 300 mg/m <sup>3</sup> | 300 mg/m <sup>3</sup> |
| 2-butoxyethyl acetate           | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
| CAS: 112-07-2                   | Dermal     | 120 mg/kg             | Non-applicable        | 169 mg/kg             | Non-applicable        |
| EC: 203-933-3                   | Inhalation | Non-applicable        | 333 mg/m <sup>3</sup> | 133 mg/m <sup>3</sup> | Non-applicable        |
| 2-methoxy-1-methylethyl acetate | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
| CAS: 108-65-6                   | Dermal     | Non-applicable        | Non-applicable        | 796 mg/kg             | Non-applicable        |
| EC: 203-603-9                   | Inhalation | Non-applicable        | 550 mg/m <sup>3</sup> | 275 mg/m <sup>3</sup> | Non-applicable        |
| Xylene                          | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
| CAS: 1330-20-7                  | Dermal     | Non-applicable        | Non-applicable        | 212 mg/kg             | Non-applicable        |
| EC: 215-535-7                   | Inhalation | 442 mg/m <sup>3</sup> | 442 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup> |

## DNEL (General population):

|                                 |            | Short exposure        |                       | Long exposure          |                        |
|---------------------------------|------------|-----------------------|-----------------------|------------------------|------------------------|
| Identification                  |            | Systemic              | Local                 | Systemic               | Local                  |
| N-butyl acetate                 | Oral       | 2 mg/kg               | Non-applicable        | 2 mg/kg                | Non-applicable         |
| CAS: 123-86-4                   | Dermal     | 6 mg/kg               | Non-applicable        | 6 mg/kg                | Non-applicable         |
| EC: 204-658-1                   | Inhalation | 300 mg/m <sup>3</sup> | 300 mg/m <sup>3</sup> | 35,7 mg/m <sup>3</sup> | 35,7 mg/m <sup>3</sup> |
| 2-butoxyethyl acetate           | Oral       | 36 mg/kg              | Non-applicable        | 8,6 mg/kg              | Non-applicable         |
| CAS: 112-07-2                   | Dermal     | 72 mg/kg              | Non-applicable        | 102 mg/kg              | Non-applicable         |
| EC: 203-933-3                   | Inhalation | Non-applicable        | 200 mg/m <sup>3</sup> | 80 mg/m <sup>3</sup>   | Non-applicable         |
| 2-methoxy-1-methylethyl acetate | Oral       | Non-applicable        | Non-applicable        | 36 mg/kg               | Non-applicable         |
| CAS: 108-65-6                   | Dermal     | Non-applicable        | Non-applicable        | 320 mg/kg              | Non-applicable         |
| EC: 203-603-9                   | Inhalation | Non-applicable        | Non-applicable        | 33 mg/m <sup>3</sup>   | 33 mg/m <sup>3</sup>   |
| Xylene                          | Oral       | Non-applicable        | Non-applicable        | 12,5 mg/kg             | Non-applicable         |
| CAS: 1330-20-7                  | Dermal     | Non-applicable        | Non-applicable        | 125 mg/kg              | Non-applicable         |
| EC: 215-535-7                   | Inhalation | 260 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup> | 65,3 mg/m <sup>3</sup> | 65,3 mg/m <sup>3</sup> |

#### PNEC:

| Identification                        |              |                |                         |              |
|---------------------------------------|--------------|----------------|-------------------------|--------------|
| Hexamethylene diisocyanate, oligomers | STP          | 88 mg/L        | Fresh water             | 0,127 mg/L   |
| CAS: 28182-81-2                       | Soil         | 53183 mg/kg    | Marine water            | 0,013 mg/L   |
| EC: 931-274-8                         | Intermittent | 1,27 mg/L      | Sediment (Fresh water)  | 266701 mg/kg |
|                                       | Oral         | Non-applicable | Sediment (Marine water) | 26670 mg/kg  |
| N-butyl acetate                       | STP          | 35,6 mg/L      | Fresh water             | 0,18 mg/L    |
| CAS: 123-86-4                         | Soil         | 0,09 mg/kg     | Marine water            | 0,018 mg/L   |
| EC: 204-658-1                         | Intermittent | 0,36 mg/L      | Sediment (Fresh water)  | 0,981 mg/kg  |
|                                       | Oral         | Non-applicable | Sediment (Marine water) | 0,098 mg/kg  |
| 2-butoxyethyl acetate                 | STP          | 90 mg/L        | Fresh water             | 0,304 mg/L   |
| CAS: 112-07-2                         | Soil         | 0,415 mg/kg    | Marine water            | 0,03 mg/L    |
| EC: 203-933-3                         | Intermittent | 0,56 mg/L      | Sediment (Fresh water)  | 2,03 mg/kg   |
|                                       | Oral         | 0,06 g/kg      | Sediment (Marine water) | 0,203 mg/kg  |
| 2-methoxy-1-methylethyl acetate       | STP          | 100 mg/L       | Fresh water             | 0,635 mg/L   |
| CAS: 108-65-6                         | Soil         | 0,29 mg/kg     | Marine water            | 0,064 mg/L   |
| EC: 203-603-9                         | Intermittent | 6,35 mg/L      | Sediment (Fresh water)  | 3,29 mg/kg   |
|                                       | Oral         | Non-applicable | Sediment (Marine water) | 0,329 mg/kg  |
| Xylene                                | STP          | 6,58 mg/L      | Fresh water             | 0,327 mg/L   |
| CAS: 1330-20-7                        | Soil         | 2,31 mg/kg     | Marine water            | 0,327 mg/L   |
| EC: 215-535-7                         | Intermittent | 0,327 mg/L     | Sediment (Fresh water)  | 12,46 mg/kg  |
|                                       | Oral         | Non-applicable | Sediment (Marine water) | 12,46 mg/kg  |

# 8.2 Exposure controls:



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| ION | 8: EXPOSURE  | CONTROLS/PERSON/   | AL PROTECT  | ION (continued)   |   |   |
|-----|--|--|---|---|---|---|
|     |  | ·  |   |   |   |   |
|     | •  | tion measures, such as pe  | •   |   |   |   |
|     | marking>> in acc<br>use, cleaning, ma<br>information see s   | cordance with Regulation<br>intenance, class of protect<br>ubsection 7.1. All information<br>evention services as it is  | (EU) 2016/425<br>ction,) consu<br>ation contained           | 5. For more information on<br>It the information leaflet p<br>I herein is a recommendat   | pment, with the correspondin<br>Personal Protective Equipme<br>rovided by the manufacturer.<br>ion which needs some specif<br>ditional measures at its dispo  | ent (storag<br>For more<br>ication fro                        |
|     | Pictogram  | PPE  | Labelling   | CEN Standard  | Remarks   |   |
|     | Mandatory<br>respiratory tract<br>protection   | Filter mask for gases and vapours (Filter type: A)   | CAT III   | EN 405:2002+A1:2010   | Replace when there is a taste (<br>contaminant inside the face<br>contaminant comes with wa<br>recommended to use isolation   | mask. If the<br>arnings it is                                 |
| C   | Specific protection  | n for the hands  |   |   |   |   |
|     | Pictogram  | PPE  | Labelling   | CEN Standard  | Remarks   |   |
|     | Mandatory hand   | NON-disposable chemical<br>protective gloves (Material:<br>Nitrile, Breakthrough time: ><br>480 min, Thickness: 0.4 mm)  |   | EN ISO 374-1:2016+A1:2018<br>EN 16523-1:2015+A1:2018<br>EN ISO 21420:2020   | The Breakthrough Time indic<br>manufacturer must exceed the pe<br>the product is being used. Do no<br>creams after the product has co<br>with skin.   | riod during<br>ot use prote                                   |
|     |  | d has therefore to be che  |   |   | rial can not be calculated in a<br>Remarks  | advance v   |
|     | As the product is<br>total reliability an<br>Eye and face prot<br>Pictogram  | d has therefore to be che<br>tection   | ecked prior to t  | he application.   |   | ally accordi<br>Use if there                                  |
| D   | As the product is<br>total reliability an<br>Eye and face prot<br>Pictogram  | d has therefore to be che<br>tection PPE Panoramic glasses against   | Labelling   | CEN Standard<br>EN 166:2002   | Remarks<br>Clean daily and disinfect periodic<br>the manufacturer's instructions.   | ally accordi<br>Use if there                                  |
| D   | As the product is<br>total reliability an<br>Eye and face prot<br>Pictogram<br>Mandatory face<br>protection  | d has therefore to be che<br>tection PPE Panoramic glasses against   | Labelling   | CEN Standard<br>EN 166:2002   | Remarks<br>Clean daily and disinfect periodic<br>the manufacturer's instructions.   | ally accordi<br>Use if there                                  |
| D   | As the product is<br>total reliability an<br>Eye and face prot<br>Pictogram<br>Mandatory face<br>protection<br>Body protection   | d has therefore to be che<br>tection PPE Panoramic glasses against<br>splash/projections.  | Labelling   | EN 166:2002<br>EN ISO 4007:2018   | Remarks<br>Clean daily and disinfect periodic<br>the manufacturer's instructions.<br>risk of splashing.   | ally accordi<br>Use if there                                  |
| D   | As the product is<br>total reliability an<br>Eye and face prot<br>Pictogram<br>Mandatory face<br>protection<br>Pictogram<br>Pictogram<br>Mandatory complete<br>body protection | d has therefore to be che<br>tection  PPE  Panoramic glasses against splash/projections.  PPE  Disposable clothing for protection against chemical risks, with antistatic and fireproof properties  Safety footwear for protection against chemical risk, with antistatic and heat resistant properties        | Labelling<br>CAT II<br>Labelling                            | CEN Standard<br>EN 166:2002<br>EN ISO 4007:2018<br>CEN Standard<br>EN 1149-1,2,3<br>EN 13034:2005+A1:2009<br>EN ISO 13982-<br>1:2004/A1:2010<br>EN ISO 6529:2013<br>EN ISO 6529:2013<br>EN ISO 6530:2005<br>EN ISO 13688:2013   | Remarks Clean daily and disinfect periodic the manufacturer's instructions. risk of splashing. Remarks For professional use only. Clea  | ally accordi<br>Use if there<br>n periodica<br>'s instructio  |
| D   | As the product is<br>total reliability an<br>Eye and face prot<br>Pictogram<br>Mandatory face<br>protection<br>Pictogram<br>Pictogram<br>Mandatory complete<br>body protection | d has therefore to be cherection  PPE Panoramic glasses against splash/projections.  PPE Disposable clothing for protection against chemical risks, with antistatic and fireproof properties Safety footwear for protection against chemical risk, with antistatic and heat resistant properties ency measures | Labelling<br>Labelling<br>Labelling<br>Labelling<br>CAT III | CEN Standard           EN 166:2002           EN ISO 4007:2018           CEN Standard           EN 13034:2005+A1:2009           EN 13034:2005+A1:2009           EN ISO 13982-<br>1:2004/A1:2010           EN ISO 6529:2013           EN ISO 530:2005           EN ISO 13287:2020           EN ISO 13287:2020           EN ISO 13287:2020           EN ISO 20345:2011 | Remarks Clean daily and disinfect periodic the manufacturer's instructions. risk of splashing. Remarks For professional use only. Clea according to the manufacturer'                               | ally accordi<br>Use if there<br>n periodica<br>'s instructic  |
| D   | As the product is<br>total reliability an<br>Eye and face prot<br>Pictogram<br>Mandatory face<br>protection<br>Pictogram<br>Pictogram<br>Mandatory complete<br>body protection | d has therefore to be cherection  PPE Panoramic glasses against splash/projections.  PPE Disposable clothing for protection against chemical risks, with antistatic and fireproof properties Safety footwear for protection against chemical risk, with antistatic and heat resistant properties ency measures | Labelling<br>Labelling<br>Labelling<br>Labelling<br>CAT III | CEN Standard           EN 166:2002           EN ISO 4007:2018           CEN Standard           EN 13034:2005+A1:2009           EN 13034:2005+A1:2009           EN ISO 13982-<br>1:2004/A1:2010           EN ISO 6529:2013           EN ISO 530:2005           EN ISO 13287:2020           EN ISO 13287:2020           EN ISO 13287:2020           EN ISO 20345:2011 | Remarks Clean daily and disinfect periodic the manufacturer's instructions. risk of splashing. Remarks For professional use only. Clea according to the manufacturer Replace boots at any sign of o | ally accordi<br>Use if there<br>on periodica<br>'s instructio |

In accordance with the community legislation for the protection of the environment it is recommended to spillage of both the product and its container. For additional information see subsection 7.1.D

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

 $\ast Not$  relevant due to the nature of the product, not providing information property of its hazards.

MASTER

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# HARDENER FOR CLEAR COAT HS 1:2 SLOW

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|-----------|---|-------------------------------------|-------------------------|--|--|--|--|--|
| SECT      | TION 9: PHYSICAL AND CHEMICAL PROPERT                           | IES (continued)                     |                         |  |  |  |  |  |
| 9.1       | Information on basic physical and chemical p                    | roperties:                          |                         |  |  |  |  |  |
|           | For complete information see the product datasheet.             |                                     |                         |  |  |  |  |  |
|           | Appearance:   |                                     |                         |  |  |  |  |  |
|           | Physical state at 20 °C:  | Liquid                              |                         |  |  |  |  |  |
|           | Appearance:   | Not available                       |                         |  |  |  |  |  |
|           | Colour:   | Not available                       |                         |  |  |  |  |  |
|           | Odour:  | Not available                       |                         |  |  |  |  |  |
|           | Odour threshold:  | Non-applicable *                    |                         |  |  |  |  |  |
|           | Volatility:   |                                     |                         |  |  |  |  |  |
|           | Boiling point at atmospheric pressure:                          | 140 °C                              |                         |  |  |  |  |  |
|           | Vapour pressure at 20 °C:                                       | 860 Pa                              |                         |  |  |  |  |  |
|           | Vapour pressure at 50 °C:                                       | 4392,24 Pa (4,39 kPa)               |                         |  |  |  |  |  |
|           | Evaporation rate at 20 °C:                                      | Non-applicable *                    |                         |  |  |  |  |  |
|           | Product description:  |                                     |                         |  |  |  |  |  |
|           | Density at 20 °C:   | 1010 kg/m <sup>3</sup>              |                         |  |  |  |  |  |
|           | Relative density at 20 °C:                                      | 1,01                                |                         |  |  |  |  |  |
|           | Dynamic viscosity at 20 °C:                                     | 3000 cP                             |                         |  |  |  |  |  |
|           | Kinematic viscosity at 20 °C:                                   | 2970,2 mm²/s                        |                         |  |  |  |  |  |
|           | Kinematic viscosity at 40 °C:                                   | Non-applicable *                    |                         |  |  |  |  |  |
|           | Concentration:  | Non-applicable *                    |                         |  |  |  |  |  |
|           | pH:   | Non-applicable *                    |                         |  |  |  |  |  |
|           | Vapour density at 20 °C:  | Non-applicable *                    |                         |  |  |  |  |  |
|           | Partition coefficient n-octanol/water 20 °C:                    | Non-applicable *                    |                         |  |  |  |  |  |
|           | Solubility in water at 20 °C:                                   | Non-applicable *                    |                         |  |  |  |  |  |
|           | Solubility properties:  | Non-applicable *                    |                         |  |  |  |  |  |
|           | Decomposition temperature:                                      | Non-applicable *                    |                         |  |  |  |  |  |
|           | Melting point/freezing point:                                   | Non-applicable *                    |                         |  |  |  |  |  |
|           | Flammability:   |                                     |                         |  |  |  |  |  |
|           | Flash Point:  | 35 °C                               |                         |  |  |  |  |  |
|           | Flammability (solid, gas):                                      | Non-applicable *                    |                         |  |  |  |  |  |
|           | Autoignition temperature:                                       | 300 °C                              |                         |  |  |  |  |  |
|           | Lower flammability limit:                                       | Not available                       |                         |  |  |  |  |  |
|           | Upper flammability limit:                                       | Not available                       |                         |  |  |  |  |  |
|           | Particle characteristics:                                       |                                     |                         |  |  |  |  |  |
|           | Median equivalent diameter:                                     | Non-applicable                      |                         |  |  |  |  |  |
| 9.2       | Other information:  |                                     |                         |  |  |  |  |  |
|           | Information with regard to physical hazard c                    | asses:                              |                         |  |  |  |  |  |
|           | Explosive properties:   | Non-applicable *                    |                         |  |  |  |  |  |
|           | Oxidising properties:   | Non-applicable *                    |                         |  |  |  |  |  |
|           | Corrosive to metals:  | Non-applicable *                    |                         |  |  |  |  |  |
|           | Heat of combustion:   | Non-applicable *                    |                         |  |  |  |  |  |
|           | Aerosols-total percentage (by mass) of flammable components:    | Non-applicable *                    |                         |  |  |  |  |  |
|           | Other safety characteristics:                                   | Non analisahla *                    |                         |  |  |  |  |  |
|           | Surface tension at 20 °C:                                       | Non-applicable *                    |                         |  |  |  |  |  |
|           | *Not relevant due to the nature of the product, not providing i | nformation property of its hazards. |                         |  |  |  |  |  |



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# HARDENER FOR CLEAR COAT HS 1:2 SLOW

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index:

Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight            | Humidity       |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact | Not applicable |

#### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):



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|---|--|---|--|------------------|--|--|
| <u>CTION 11: TOX</u>  | COLOGICAL INFORMATION (contir  | nued)   |  |                  |  |  |
|   | genicity: Based on available data, the clas  |   | es it does not contain subst   | ances classifie  |  |  |
| as hazardo<br>IARC: Xy  | us for the effects mentioned. For more inf<br>lene (3)   | formation see section 3.  |  |                  |  |  |
| hazardous<br>- Reprodu  | icity: Based on available data, the classifi<br>for this effect. For more information see s<br>ctive toxicity: Based on available data, the<br>s bazardous for this effect. For more infor   | section 3.<br>le classification criteria are not                                  |  |                  |  |  |
|   | classified as hazardous for this effect. For more information see section 3.<br>E- Sensitizing effects:  |   |  |                  |  |  |
| hazardous<br>- Skin: Pro  | ory: Based on available data, the classific<br>with sensitising effects. For more informa<br>blonged contact with the skin can result ir<br>get organ toxicity (STOT) - single exposu  | tion see section 3.<br>n episodes of allergic contact d                           |  | es classified as |  |  |
| Causes irrit  | ation in respiratory passages, which is no   | ormally reversible and limited to   | the upper respiratory pass   | ages.            |  |  |
| G- Specific tar   | get organ toxicity (STOT)-repeated expos   | sure:   |  |                  |  |  |
| However, it   | target organ toxicity (STOT)-repeated exp<br>does contain substances classified as haz<br>peated exposure may cause skin dryness<br>nazard:  | ,<br>zardous for this effect. For mor   | ,  |                  |  |  |
|   | vailable data, the classification criteria are<br>ect. For more information see section 3.   | e not met. However, it does co  | ontain substances classified   | as hazardous     |  |  |
|   |  |   |  |                  |  |  |
| Non-applicable  |  |   |  |                  |  |  |
| Specific toxic  | ology information on the substances  | 5:  |  |                  |  |  |
|   | Identification   |   | Acute toxicity   | Genus            |  |  |
| N-butyl acetate   |  | LD50 oral   | 12789 mg/kg  | Rat              |  |  |
| CAS: 123-86-4   |  | LD50 dermal   | 14112 mg/kg  | Rabbit           |  |  |
| EC: 204-658-1   |  | LC50 inhalation   | on 23,4 mg/L (4 h)   | Rat              |  |  |
| Hexamethylene c   | iisocyanate, oligomers   | LD50 oral   | 5100 mg/kg   | Rat              |  |  |
| CAS: 28182-81-2   |  | LD50 dermal   | >2000 mg/kg  |                  |  |  |
| EC: 931-274-8   |  | LC50 inhalation   | on 11 mg/L (ATEi)  |                  |  |  |
| 2-methoxy-1-met   | hylethyl acetate   | LD50 oral   | 8532 mg/kg   | Rat              |  |  |
| CAS: 108-65-6   |  | LD50 dermal   | 5100 mg/kg   | Rat              |  |  |
| EC: 203-603-9   |  | LC50 inhalatio  | on 30 mg/L (4 h)   | Rat              |  |  |
| Xylene  |  | LD50 oral   | 2100 mg/kg   | Rat              |  |  |
| CAS: 1330-20-7  |  | LD50 dermal   | 1100 mg/kg   | Rat              |  |  |
| EC: 215-535-7   |  | LC50 inhalatio  | on 11 mg/L (ATEi)  |                  |  |  |
| LC. 213-333-/   |  |   |  |                  |  |  |
|   | tate   | LD50 oral   |  | Rat              |  |  |
| 2-butoxyethyl ace   | tate   | LD50 oral   | 2100 mg/kg   | Rat<br>Rabbit    |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2  | state  | LD50 dermal   | 1480 mg/kg   | Rabbit           |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3   |  |   | 1480 mg/kg   |                  |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3   | y Estimate (ATE mix):  | LD50 dermal   | 1480 mg/kg<br>on 11 mg/L (4 h)   | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3<br><b>Acute Toxicit</b>   | <b>y Estimate (ATE mix):</b><br>ATE mix  | LD50 dermal<br>LC50 inhalatio   | 1480 mg/kg<br>on 11 mg/L (4 h)<br>Ingredient(s) of unknow  | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3<br>Acute Toxicit  | y Estimate (ATE mix):<br>ATE mix<br>>2000 mg/kg (Calculati   | LD50 dermal<br>LC50 inhalatio   | 1480 mg/kg<br>on 11 mg/L (4 h)<br>Ingredient(s) of unknow<br>Non-applicable                      | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3<br>Acute Toxicit<br>Oral<br>Dermal  | y Estimate (ATE mix):<br>ATE mix<br>>2000 mg/kg (Calculati<br>8468,58 mg/kg (Calculati   | LD50 dermal<br>LC50 inhalation<br>ion method)<br>ation method)                    | 1480 mg/kg       on     11 mg/L (4 h)       Ingredient(s) of unknow       Non-applicable     0 % | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3<br>Acute Toxicit<br>Oral<br>Dermal<br>Inhalation                                      | y Estimate (ATE mix):<br>ATE mix<br>>2000 mg/kg (Calculati<br>8468,58 mg/kg (Calculati<br>16,31 mg/L (4 h) (Calcu  | LD50 dermal<br>LC50 inhalation<br>ion method)<br>ation method)                    | 1480 mg/kg<br>on 11 mg/L (4 h)<br>Ingredient(s) of unknow<br>Non-applicable                      | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3<br>Acute Toxicit<br>Oral<br>Dermal<br>Inhalation                                      | y Estimate (ATE mix):<br>ATE mix<br>>2000 mg/kg (Calculati<br>8468,58 mg/kg (Calculati<br>16,31 mg/L (4 h) (Calculati<br>and the constant of the constan | LD50 dermal<br>LC50 inhalation<br>ion method)<br>ation method)                    | 1480 mg/kg       on     11 mg/L (4 h)       Ingredient(s) of unknow       Non-applicable     0 % | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl ace<br>CAS: 112-07-2<br>EC: 203-933-3<br>Acute Toxicit<br>Oral<br>Dermal<br>Inhalation                                      | y Estimate (ATE mix):<br>ATE mix<br>>2000 mg/kg (Calculati<br>8468,58 mg/kg (Calculati<br>16,31 mg/L (4 h) (Calcu  | LD50 dermal<br>LC50 inhalation<br>ion method)<br>ation method)                    | 1480 mg/kg       on     11 mg/L (4 h)       Ingredient(s) of unknow       Non-applicable     0 % | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl acc<br>CAS: 112-07-2<br>EC: 203-933-3<br>Acute Toxicit<br>Oral<br>Dermal<br>Inhalation<br>2 Information of<br>Endocrine dis | y Estimate (ATE mix):<br>ATE mix<br>>2000 mg/kg (Calculati<br>8468,58 mg/kg (Calculati<br>16,31 mg/L (4 h) (Calculati<br>and the constant of the constan | LD50 dermal<br>LC50 inhalation<br>ion method)<br>ation method)<br>ulation method) | 1480 mg/kg       on     11 mg/L (4 h)       Ingredient(s) of unknow       Non-applicable     0 % | Rabbit<br>Rat    |  |  |
| 2-butoxyethyl acc<br>CAS: 112-07-2<br>EC: 203-933-3<br>Acute Toxicit<br>Oral<br>Dermal<br>Inhalation<br>2 Information of<br>Endocrine dis | y Estimate (ATE mix):<br>ATE mix<br>>2000 mg/kg (Calculati<br>8468,58 mg/kg (Calculati<br>16,31 mg/L (4 h) (Calcu<br>on other hazards:<br>srupting properties<br>upting properties: The product fails to me  | LD50 dermal<br>LC50 inhalation<br>ion method)<br>ation method)<br>ulation method) | 1480 mg/kg       on     11 mg/L (4 h)       Ingredient(s) of unknow       Non-applicable     0 % | Rabbit<br>Rat    |  |  |

Non-applicable



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# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

### 12.1 Toxicity:

Acute toxicity:

| Identification                        |      | Concentration         | Species                 | Genus      |
|---------------------------------------|------|-----------------------|-------------------------|------------|
| Hexamethylene diisocyanate, oligomers | LC50 | Non-applicable        |                         |            |
| CAS: 28182-81-2                       | EC50 | Non-applicable        |                         |            |
| EC: 931-274-8                         | EC50 | 1000 mg/L (72 h)      | Scenedesmus subspicatus | Algae      |
| N-butyl acetate                       | LC50 | Non-applicable        |                         |            |
| CAS: 123-86-4                         | EC50 | Non-applicable        |                         |            |
| EC: 204-658-1                         | EC50 | 675 mg/L (72 h)       | Scenedesmus subspicatus | Algae      |
| 2-butoxyethyl acetate                 | LC50 | 80 mg/L (48 h)        | Leuciscus idus          | Fish       |
| CAS: 112-07-2                         | EC50 | 37 mg/L (48 h)        | Daphnia magna           | Crustacean |
| EC: 203-933-3                         | EC50 | 500 mg/L (72 h)       | Scenedesmus subspicatus | Algae      |
| 2-methoxy-1-methylethyl acetate       | LC50 | 161 mg/L (96 h)       | Pimephales promelas     | Fish       |
| CAS: 108-65-6                         | EC50 | 481 mg/L (48 h)       | Daphnia sp.             | Crustacean |
| EC: 203-603-9                         | EC50 | Non-applicable        |                         |            |
| Xylene                                | LC50 | >10 - 100 mg/L (96 h) |                         | Fish       |
| CAS: 1330-20-7                        | EC50 | >10 - 100 mg/L (48 h) |                         | Crustacean |
| EC: 215-535-7                         | EC50 | >10 - 100 mg/L (72 h) |                         | Algae      |

## Chronic toxicity:

| Identification                  |      | Concentration  | Species             | Genus      |
|---------------------------------|------|----------------|---------------------|------------|
| N-butyl acetate                 | NOEC | Non-applicable |                     |            |
| CAS: 123-86-4 EC: 204-658-1     | NOEC | 23,2 mg/L      | Daphnia magna       | Crustacean |
| 2-methoxy-1-methylethyl acetate | NOEC | 47,5 mg/L      | Oryzias latipes     | Fish       |
| CAS: 108-65-6 EC: 203-603-9     | NOEC | 100 mg/L       | Daphnia magna       | Crustacean |
| Xylene                          | NOEC | 1,3 mg/L       | Oncorhynchus mykiss | Fish       |
| CAS: 1330-20-7 EC: 215-535-7    | NOEC | 1,17 mg/L      | Ceriodaphnia dubia  | Crustacean |

# 12.2 Persistence and degradability:

# Substance-specific information:

| Identification                  | Degradability |                | Biodegradab     | bility         |
|---------------------------------|---------------|----------------|-----------------|----------------|
| N-butyl acetate                 | BOD5          | Non-applicable | Concentration   | Non-applicable |
| CAS: 123-86-4                   | COD           | Non-applicable | Period          | 5 days         |
| EC: 204-658-1                   | BOD5/COD      | Non-applicable | % Biodegradable | 84 %           |
| 2-butoxyethyl acetate           | BOD5          | Non-applicable | Concentration   | 30 mg/L        |
| CAS: 112-07-2                   | COD           | Non-applicable | Period          | 28 days        |
| EC: 203-933-3                   | BOD5/COD      | Non-applicable | % Biodegradable | 77,3 %         |
| 2-methoxy-1-methylethyl acetate | BOD5          | Non-applicable | Concentration   | 785 mg/L       |
| CAS: 108-65-6                   | COD           | Non-applicable | Period          | 8 days         |
| EC: 203-603-9                   | BOD5/COD      | Non-applicable | % Biodegradable | 100 %          |
| Xylene                          | BOD5          | Non-applicable | Concentration   | Non-applicable |
| CAS: 1330-20-7                  | COD           | Non-applicable | Period          | 28 days        |
| EC: 215-535-7                   | BOD5/COD      | Non-applicable | % Biodegradable | 88 %           |

## 12.3 Bioaccumulative potential:

#### Substance-specific information:

| Identification        | Bioaccumulation potential |      |  |
|-----------------------|---------------------------|------|--|
| N-butyl acetate       | BCF                       | 4    |  |
| CAS: 123-86-4         | Pow Log                   | 1.78 |  |
| EC: 204-658-1         | Potential                 | Low  |  |
| 2-butoxyethyl acetate | BCF                       | 3    |  |
| CAS: 112-07-2         | Pow Log                   | 1.51 |  |
| EC: 203-933-3         | Potential                 | Low  |  |



524,86 Pa·m<sup>3</sup>/mol

Yes

Yes

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|---------------------|-------------------------------|-----------------|---------------------|----------------|-------------|-------------------------------|
| SECTION 12: ECO     | LOGICAL INFORMATION (con      | tinued)         |                     |                |             |                               |
|                     | Identification                |                 |                     | Bioaccu        | mulatio     | n potential                   |
| 2-methoxy-1-me      | thylethyl acetate             |                 |                     | BCF            | 1           |                               |
| CAS: 108-65-6       |                               |                 |                     | Pow Log        | 0.43        |                               |
| EC: 203-603-9       |                               |                 |                     | Potential      | Low         |                               |
| Xylene              |                               |                 |                     | BCF            | 9           |                               |
| CAS: 1330-20-7      | CAS: 1330-20-7                |                 |                     |                | ow Log 2.77 |                               |
| EC: 215-535-7       |                               |                 |                     | Potential      | Low         |                               |
| 12.4 Mobility in so | oil:                          |                 |                     |                |             |                               |
|                     | Identification                | Absorp          | tion/desorption     |                | Volat       | ility                         |
| N-butyl acetate     |                               | Кос             | Non-applicable      | Henry          |             | Non-applicable                |
| CAS: 123-86-4       |                               | Conclusion      | Non-applicable      | Dry soil       |             | Non-applicable                |
| EC: 204-658-1       |                               | Surface tension | 2,478E-2 N/m (25 °C | Moist soil     |             | Non-applicable                |
| 2-butoxyethyl ac    | etate                         | Кос             | Non-applicable      | Henry          |             | 5,532E-1 Pa·m <sup>3</sup> /m |
| CAS: 112-07-2       |                               | Conclusion      | Non-applicable      | Dry soil       |             | No                            |
| EC: 203-933-3       |                               | Surface tension | Non-applicable      | Moist soil     |             | Yes                           |

Кос

Conclusion

Surface tension

# 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

#### 12.7 Other adverse effects:

Not described

Xylene

CAS: 1330-20-7

EC: 215-535-7

## SECTION 13: DISPOSAL CONSIDERATIONS

#### **13.1 Waste treatment methods:**

| Code                   | Description   | Waste class (Regulation (EU) No<br>1357/2014) |
|------------------------|---|---|
| 08 01 11*<br>15 01 10* | waste paint and varnish containing organic solvents or other hazardous substances<br>packaging containing residues of or contaminated by hazardous substances | Dangerous                                     |

202

Moderate

Non-applicable

Henry

Dry soil

Moist soil

#### Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

# Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:



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|----------------------|--------|---|--|-------------------------|
| SECTION 14: TRANSP   | PORT 1 | INFORMATION (continued)   |  |                         |
|                      | 14.2   | UN number or ID number:<br>UN proper shipping name:<br>Transport hazard class(es):<br>Labels:           | UN1263<br>PAINT<br>3<br>3                    |                         |
| 3                    | 14.5   | Packing group:<br>Environmental hazards:<br>Special precautions for user                                | III<br>No                                    |                         |
|                      |        | Special regulations:<br>Tunnel restriction code:<br>Physico-Chemical properties:<br>Limited quantities: | 163, 367, 650<br>D/E<br>see section 9<br>5 L |                         |
|                      | 14.7   | Maritime transport in bulk<br>according to IMO<br>instruments:  | Non-applicable                               |                         |
| Transport of da      | ngero  | us goods by sea:  |  |                         |
| With regard to IN    | 1DG 40 | -20:  |  |                         |
|                      |        | UN number or ID number:   | UN1263                                       |                         |
|                      |        | UN proper shipping name:  | PAINT  |                         |
| she                  | 14.3   | Transport hazard class(es):   | 3  |                         |
|                      | 144    | Labels:<br>Packing group:   | 3<br>III                                     |                         |
|                      |        | Marine pollutant:   | No   |                         |
| 3                    |        | Special precautions for user  | NO   |                         |
|                      |        | Special regulations:  | 223, 955, 163, 367                           |                         |
|                      |        | EmS Codes:  | F-E, S-E                                     |                         |
|                      |        | Physico-Chemical properties:  | see section 9                                |                         |
|                      |        | Limited quantities:   | 5 L  |                         |
|                      |        | Segregation group:  | Non-applicable                               |                         |
|                      | 14.7   | Maritime transport in bulk<br>according to IMO<br>instruments:  | Non-applicable                               |                         |
| Transport of da      | ngero  | us goods by air:  |  |                         |
| With regard to IA    | TA/ICA | NO 2023:  |  |                         |
|                      | 14.1   | UN number or ID number:   | UN1263                                       |                         |
| *                    | 14.2   | UN proper shipping name:  | PAINT  |                         |
|                      | 14.3   | Transport hazard class(es):   | 3  |                         |
|                      |        | Labels:   | 3  |                         |
|                      |        | Packing group:  | III  |                         |
|                      |        | Environmental hazards:<br>Special precautions for user  | No   |                         |
|                      | 14.0   | Physico-Chemical properties:  | see section 9                                |                         |
|                      | 14.7   | Maritime transport in bulk<br>according to IMO<br>instruments:  | Non-applicable                               |                         |
|                      |        |   |  |                         |

# SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable



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| ORY INFORMATION (continue                                      | ed)                            |                              |                          |
|--|--------------------------------|------------------------------|--------------------------|
|  | ,                              |                              |                          |
| 649/2012, in relation to the imp                               | ort and export of hazardous ch | emical products: Non-applica | able                     |
| Description Lower-tier Upper-tier<br>requirements requirements |                                |                              |                          |
| FLAMMABLE LIQUIDS 5000 50000                                   |                                |                              |                          |
|  | Descr                          | Description                  | Description requirements |



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| SECTION 15: REGU   | LATORY INFORMATION (continue  | d)                                |   |
| Shall not be use   |   |                                   |   |
| <ul> <li>—ornamental an<br/>and ashtrays,</li> </ul>     | ticles intended to produce light or colou   | r effects by means of differen    | nt phases, for example in ornamental lamps  |
| -tricks and jok  | es,   |                                   |   |
|  | e or more participants, or any article inte                                       |                                   |   |
|  |   |                                   | shall not be used as substances on their own,   |
|  | in other substances or in mixtures for ir   |                                   |   |
| employed ensur   |   |                                   | % by weight, or (b) the employer or self-<br>training on the safe use of diisocyanates    |
| 2. Shall not be p  | placed on the market as substances on t   | heir own, as a constituent in     | other substances or in mixtures for industrial  |
|  | l use(s) after 24 February 2022, unless:  |                                   | 0/ house in the second in an and  |
|  |   |                                   | . % by weight, or (b) the supplier ensures<br>ne requirements referred to in point (b) of |
|  |   |                                   | at is visibly distinct from the rest of the label   |
|  | from 24 August 2023 adequate training   |                                   |   |
|  | ose of this entry "industrial and profession                                      |                                   |   |
|  | n their own, as a constituent in other sub  | ostances or in mixtures for inc   | dustrial and professional use(s) or   |
| supervising the  |   |                                   |   |
|  | referred to in point (b) of paragraph 1 sh  |                                   |   |
|  | ocyanates at the workplace without prej   |                                   | ucted by an expert on occupational safety   |
|  | competence acquired by relevant vocati  |                                   |   |
|  | elements in point (a) of paragraph 5 for  |                                   |   |
|  | elements in points (a) and (b) of paragra   |                                   |   |
| <ul> <li>handling ope</li> </ul>                         | n mixtures at ambient temperature (incl   |                                   |   |
|  | ventilated booth  |                                   |   |
| — application b  |   |                                   |   |
| - application b  | y brusn<br>y dipping and pouring  |                                   |   |
|  | ost treatment (e.g. cutting) of not fully of                                      | cured articles which are not w    | varm anymore  |
| — cleaning and   |   | carea articles which are not w    |   |
|  | es with similar exposure through the der  | mal and/or inhalation route       |   |
|  | elements in points (a), (b) and (c) of part                                       |                                   | ses:  |
|  | mpletely cured articles (e.g. freshly cure  | ed, still warm)                   |   |
| — foundry appli  |   | ant                               |   |
|  | and repair that needs access to equipm<br>g of warm or hot formulations (> 45 °C) |                                   |   |
|  | pen air, with limited or only natural venti                                       |                                   | v working halls) and spraving with high   |
| . , .  | ims, elastomers)  | (                                 | ,   |
| <ul> <li>and any other</li> </ul>                        | r uses with similar exposure through the  | e dermal and/or                   |   |
| inhalation route   |   |                                   |   |
| 5. Training elem   |   |                                   |   |
| (a) general train<br>— chemistry of                      | ning, including on-line training, on:   |                                   |   |
|  | disocyanates<br>ds (including acute toxicity)                                     |                                   |   |
| - exposure to a  |   |                                   |   |
|  | exposure limit values   |                                   |   |
|  | ation can develop   |                                   |   |
|  | cation of hazard  |                                   |   |
|  | f volatility for risk   | Nanatos                           |   |
| — personal hyg   | perature, and molecular weight of diisoo  | cyanates                          |   |
|  | ective equipment needed, including prac   | ctical instructions for its corre | ect use and its limitations   |
|  | I contact and inhalation exposure   |                                   |   |
|  | n to application process used   |                                   |   |
|  | lation protection scheme  |                                   |   |
| - ventilation  | vagaa maintananaa   |                                   |   |
|  | kages, maintenance  |                                   |   |
| <ul> <li>discarding en</li> <li>protection of</li> </ul> |   |                                   |   |
|  | of critical handling stages   |                                   |   |
|  | nal code systems (if applicable)  |                                   |   |
|  | sed safety  |                                   |   |



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|---|--|---|---|
| SECTION 15: REGL  | JLATORY INFORMATION (continued   | d)  |   |
| <ul> <li>certification (</li> <li>(b) intermediate</li> <li>additional be</li> <li>maintenance</li> <li>management</li> <li>evaluation of</li> <li>risk in relation</li> <li>certification of</li> <li>(c) advanced training</li> <li>spraying outs</li> <li>open handlin</li> <li>certification of</li> <li>The training</li> <li>Member States</li> <li>(s), as long as tight</li> <li>The supplier</li> <li>courses pursuat</li> <li>are supplied. Th</li> <li>and design.</li> <li>The employee</li> <li>training shall be</li> <li>Member States</li> <li>(a) any establis</li> <li>diisocyanates for</li> <li>(b) the number</li> <li>relation to diiso</li> <li>(c) national exp</li> <li>(d) information</li> </ul> | or documented proof that training has be<br>e level training, including on-line training,<br>ehaviour-based aspects<br>t of change<br>f existing safety instructions<br>on to application process used<br>or documented proof that training has be<br>raining, including on-line training, on:<br>al certification needed for the specific use<br>side a spraying booth<br>ng of hot or warm formulations (> 45 °C)<br>or documented proof that training has be<br>shall comply with the provisions set by th<br>may implement or continue to apply their<br>the minimum requirements set out in para<br>referred to in point (b) of paragraph 2 sh<br>nt to paragraphs 4 and 5 in the official lar<br>he training shall take into consideration the<br>er or self-employed shall document the su<br>e renewed at least every five years.<br>tes shall include in their reports pursuant is<br>shed training requirements and other risk<br>preseen in national law<br>of cases of reported and recognised occu-<br>bosure limits for diisocyanates, if there are<br>about enforcement activities related to the | en successfully completed<br>on:<br>en successfully completed<br>en successfully completed<br>es covered<br>en successfully completed<br>ne Member State in which the<br>r own national requirements fr<br>agraphs 4 and 5 are met.<br>all ensure that the recipient is<br>nguage(s) of the Member Stat<br>ne specificity of the products s<br>ccessful completion of the trai<br>to Article 117(1) the following<br>management measures relate<br>upational asthma and occupati<br>e any<br>his restriction. | e(s) where the substance(s) or mixture(s)<br>supplied, including composition, packaging,<br>ining referred to in paragraphs 4 and 5. The<br>information:<br>ed to the industrial and professional uses of |
|   | sions in terms of protecting people o  | or the environment:   |   |
|   | ded to use the information included in thi<br>order to establish the necessary risk prev   |   |   |
| _   | uld be affected by sectorial legislation   |   |   |
| 15.2 Chemical safe  | , .  |   |   |
|   | as not carried out evaluation of chemical s  | afety.  |   |
|   |  |   |   |
| SECTION 16: OTHE  | ER INFORMATION   |   |   |
| The SDS shall b<br>has been design<br>(COMMISSION   | ned in accordance with ANNEX II-Guide to<br>REGULATION (EU) 2020/878).<br><b>related to the previous Safety Data</b>   | o the compilation of safety dat   | blaced on the market. This safety data sheet<br>ta sheets of Regulation (EC) No 1907/2006<br>ways of managing risks.:   |

#### Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H332: Harmful if inhaled.

H226: Flammable liquid and vapour.

## Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

## CLP Regulation (EC) No 1272/2008:



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|--|--|---|-------------------------|--|
| SECTION 16: OTHE   | R INFORMATION (continued)  |   |                         |  |
| Acute Tox. 4: H<br>Aquatic Chronic<br>Asp. Tox. 1: H3<br>Eye Irrit. 2: H3<br>Flam. Liq. 3: H2<br>Skin Irrit. 2: H3<br>Skin Sens. 1: H<br>STOT RE 2: H3<br>STOT SE 3: H3  | <ul> <li>312+H332 - Harmful in contact with ski</li> <li>332 - Harmful if inhaled.</li> <li>3: H412 - Harmful to aquatic life with l</li> <li>04 - May be fatal if swallowed and enter</li> <li>19 - Causes serious eye irritation.</li> <li>226 - Flammable liquid and vapour.</li> <li>115 - Causes skin irritation.</li> <li>317 - May cause an allergic skin reaction</li> <li>73 - May cause damage to organs throu</li> <li>35 - May cause drowsiness or dizziness.</li> </ul> | ong lasting effects.<br>rs airways.<br>n. | osure (Oral).           |  |
| Classification procedure:  |  |   |                         |  |
| STOT SE 3: Calo<br>STOT SE 3: Calo<br>Acute Tox. 4: Ca   | alculation method<br>culation method<br>culation method<br>alculation method<br>Iculation method (2.6.4.3)   |   |                         |  |
| Advice related to training:  |  |   |                         |  |
|  | Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and<br>interpretation of this safety data sheet, as well as the label on the product.  |   |                         |  |
| Principal bibliographical sources:   |  |   |                         |  |
| http://echa.euro<br>http://eur-lex.e   | uropa.eu   |   |                         |  |
|  | Abbreviations and acronyms:<br>ADR: European agreement concerning the international carriage of dangerous goods by road  |   |                         |  |
| IATA: Internation<br>ICAO: Internation<br>COD: Chemical<br>BOD5: 5day bion<br>BCF: Bioconcen<br>LD50: Lethal Don<br>LC50: Lethal Con<br>EC50: Effective<br>LogPOW: Octan | ose 50<br>oncentration 50<br>concentration 50<br>olwater partition coefficient<br>pefficient of organic carbon   |   |                         |  |
|  | onal Agency for Research on Cancer   |   |                         |  |

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.