

SAFETY DATA SHEET

Date of issue/Date of revision

: 28 April 2025

Version

: 2.06



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

1.1 Product identifier

Product name : SIGMACOVER 380 HARDENER

Product code : 000001188507

Other means of identification

00444782; 00444783

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

Product use : Professional applications, Used by spraying.

**Use of the substance/
mixture** : Hardener.

Uses advised against : Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL

Tweemontstraat 104

B-2100 Deurne

Belgium

Telephone +32-33606311

Fax +32-33606435

**e-mail address of person
responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Poison Information Centre; emergency telephone, public + 45 82 12 12 12 (health sector +45 35 31 55 55)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226

Skin Corr. 1B, H314

Eye Dam. 1, H318

Skin Sens. 1, H317

Repr. 2, H361fd

STOT SE 3, H335

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

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

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SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.
<u>Precautionary statements</u>		
Prevention	:	Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	:	Collect spillage.
Storage	:	Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P403 + P233, P501
Hazardous ingredients	:	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine; xylene; 4-nonylphenol, branched and 3,6-diazaoctanethylenediamin
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
<u>Special packaging requirements</u>		
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 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	:	Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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SECTION 2: Hazards identification

May cause endocrine disruption.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≥10 - ≤25	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥10 - <20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥5.0 - ≤10	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/kg ATE [Dermal] = 1280 mg/kg	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/kg ATE [Dermal] = 1465 mg/kg	[1]
toluene	EC: 203-625-9 CAS: 108-88-3	≤0.30	Flam. Liq. 2, H225 Skin Irrit. 2, H315	-	[1]

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SECTION 3: Composition/information on ingredients

	Index: 601-021-00-3		Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.		
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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.

Type

- [1] Substance classified with a health or environmental hazard
 - [2] Substance with a workplace exposure limit
 - [3] Substance of equivalent concern - Endocrine disrupting properties
- Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- 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

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

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

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SECTION 4: First aid measures

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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SECTION 7: Handling and storage

- 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 between the following temperatures: 0 to 35°C (32 to 95°F). 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 oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Xylene	Working Environment Authority (Denmark, 3/2024) [xylen, alle isomere] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 109 mg/m³. STEL 15 minutes: 442 mg/m³. STEL 15 minutes: 100 ppm.
2-methylpropan-1-ol	Working Environment Authority (Denmark, 3/2024) [butanol, alle isomere] Absorbed through skin. CEIL: 50 ppm. CEIL: 150 mg/m³.
ethylbenzene	Working Environment Authority (Denmark, 3/2024) K. Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 217 mg/m³. STEL 15 minutes: 434 mg/m³. STEL 15 minutes: 100 ppm.

- Recommended monitoring procedures
- : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure	Value
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	DNEL - General population - Long term - Oral <i>Effects: Systemic</i>	97.2 µg/kg bw/day
	DNEL - General population - Long term - Dermal <i>Effects: Systemic</i>	97.2 µg/kg bw/day
	DNEL - General population - Long term - Inhalation <i>Effects: Systemic</i>	0.169 mg/m ³
	DNEL - Workers - Long term - Dermal <i>Effects: Systemic</i>	0.272 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation <i>Effects: Systemic</i>	0.952 mg/m ³
	DNEL - General population - Long term - Oral <i>Effects: Systemic</i>	5 mg/kg bw/day
	DNEL - General population - Long term - Inhalation <i>Effects: Local</i>	65.3 mg/m ³
	DNEL - General population - Long term - Inhalation <i>Effects: Systemic</i>	65.3 mg/m ³
	DNEL - General population - Long term - Dermal <i>Effects: Systemic</i>	125 mg/kg bw/day
	DNEL - Workers - Long term - Dermal <i>Effects: Systemic</i>	212 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation <i>Effects: Local</i>	221 mg/m ³
	DNEL - Workers - Long term - Inhalation <i>Effects: Systemic</i>	221 mg/m ³
	DNEL - General population - Short term - Inhalation <i>Effects: Local</i>	260 mg/m ³
	DNEL - General population - Short term - Inhalation <i>Effects: Systemic</i>	260 mg/m ³
xylene	DNEL - Workers - Short term - Inhalation <i>Effects: Local</i>	442 mg/m ³
	DNEL - Workers - Short term - Inhalation <i>Effects: Systemic</i>	442 mg/m ³
	DNEL - General population - Short term - Oral <i>Effects: Systemic</i>	0.4 mg/kg bw/day
	DNEL - General population - Short term - Inhalation <i>Effects: Systemic</i>	0.8 mg/m ³
	DNEL - General population - Short term - Dermal <i>Effects: Systemic</i>	7.6 mg/kg bw/day
	DNEL - General population - Long term - Oral <i>Effects: Systemic</i>	0.08 mg/kg bw/day
	DNEL - General population - Long term - Inhalation <i>Effects: Systemic</i>	0.4 mg/m ³
	DNEL - Workers - Long term - Inhalation <i>Effects: Systemic</i>	0.5 mg/m ³
	DNEL - Workers - Short term - Inhalation <i>Effects: Systemic</i>	1 mg/m ³
	DNEL - General population - Long term - Dermal <i>Effects: Systemic</i>	3.8 mg/kg bw/day
4-nonylphenol, branched	DNEL - Workers - Long term - Dermal <i>Effects: Systemic</i>	7.5 mg/kg bw/day
	DNEL - Workers - Short term - Dermal <i>Effects: Systemic</i>	15 mg/kg bw/day
	DNEL - General population - Long term - Inhalation <i>Effects: Local</i>	55 mg/m ³
	DNEL - Workers - Long term - Inhalation <i>Effects: Local</i>	310 mg/m ³
	DNEL - General population - Long term - Oral <i>Effects: Systemic</i>	0.075 mg/kg bw/day
	DNEL - General population - Short term - Dermal <i>Effects: Systemic</i>	0.075 mg/kg bw/day
2-methylpropan-1-ol	DNEL - General population - Long term - Dermal <i>Effects: Systemic</i>	0.075 mg/kg bw/day
	DNEL - General population - Short term - Inhalation <i>Effects: Systemic</i>	0.13 mg/m ³
	DNEL - General population - Long term - Inhalation <i>Effects: Systemic</i>	0.13 mg/m ³
	DNEL - Workers - Long term - Dermal <i>Effects: Systemic</i>	0.15 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation <i>Effects: Systemic</i>	0.53 mg/m ³
	DNEL - Workers - Short term - Dermal <i>Effects: Systemic</i>	0.6 mg/kg bw/day
	DNEL - General population - Short term - Dermal <i>Effects: Systemic</i>	0.075 mg/kg bw/day
	DNEL - General population - Long term - Dermal <i>Effects: Systemic</i>	0.075 mg/kg bw/day
	DNEL - General population - Short term - Inhalation <i>Effects: Systemic</i>	0.13 mg/m ³
	DNEL - General population - Long term - Inhalation <i>Effects: Systemic</i>	0.13 mg/m ³
2,4,6-tris (dimethylaminomethyl) phenol	DNEL - Workers - Long term - Dermal <i>Effects: Systemic</i>	0.15 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation <i>Effects: Systemic</i>	0.53 mg/m ³
	DNEL - Workers - Short term - Dermal <i>Effects: Systemic</i>	0.6 mg/kg bw/day
	DNEL - General population - Short term - Dermal <i>Effects: Systemic</i>	0.075 mg/kg bw/day

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SECTION 8: Exposure controls/personal protection

ethylbenzene	DNEL - Workers - Short term - Inhalation	Effects: Systemic	2.1 mg/m ³
	DMEL - Workers - Long term - Inhalation	Effects: Local	442 mg/m ³
	DMEL - Workers - Short term - Inhalation	Effects: Systemic	884 mg/m ³
	DNEL - General population - Long term - Oral	Effects: Systemic	1.6 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic	15 mg/m ³
3,6-diazaoctanethylenediamin	DNEL - Workers - Long term - Inhalation	Effects: Systemic	77 mg/m ³
	DNEL - Workers - Long term - Dermal	Effects: Systemic	180 mg/kg bw/day
	DNEL - Workers - Short term - Inhalation	Effects: Local	293 mg/m ³
	DNEL - Workers - Long term - Dermal	Effects: Local	28 µg/cm ²
	DNEL - General population - Long term - Dermal	Effects: Systemic	0.25 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic	0.29 mg/m ³
	DNEL - General population - Long term - Oral	Effects: Systemic	0.41 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Effects: Local	0.43 mg/cm ²
	DNEL - Workers - Long term - Dermal	Effects: Systemic	0.57 mg/kg bw/day
	DNEL - General population - Short term - Dermal	Effects: Local	1 mg/cm ²
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	1 mg/m ³
	DNEL - General population - Short term - Dermal	Effects: Systemic	8 mg/kg bw/day
	DNEL - General population - Short term - Oral	Effects: Systemic	20 mg/kg bw/day
	DNEL - General population - Short term - Inhalation	Effects: Systemic	1600 mg/m ³
	DNEL - Workers - Short term - Inhalation	Effects: Systemic	5380 mg/m ³
toluene	DNEL - General population - Long term - Oral	Effects: Systemic	8.13 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Local	56.5 mg/m ³
	DNEL - General population - Long term - Inhalation	Effects: Systemic	56.5 mg/m ³
	DNEL - Workers - Long term - Inhalation	Effects: Local	192 mg/m ³
	DNEL - Workers - Long term - Inhalation	Effects: Systemic	192 mg/m ³
	DNEL - General population - Long term - Dermal	Effects: Systemic	226 mg/kg bw/day
	DNEL - General population - Short term - Inhalation	Effects: Local	226 mg/m ³
	DNEL - General population - Short term - Inhalation	Effects: Systemic	226 mg/m ³
	DNEL - Workers - Long term - Dermal	Effects: Systemic	384 mg/kg bw/day
	DNEL - Workers - Short term - Inhalation	Effects: Local	384 mg/m ³
	DNEL - Workers - Short term - Inhalation	Effects: Systemic	384 mg/m ³

PNECs

Product/ingredient name	Compartment Detail - Method	Value
 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Fresh water - Assessment Factors	0.043 mg/l
	Marine water - Assessment Factors	0 mg/l
	Sewage Treatment Plant - Assessment Factors	3.84 mg/l
	Fresh water sediment - Equilibrium Partitioning	434.02 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	43.4 mg/kg dwt
	Soil - Equilibrium Partitioning	86.78 mg/kg dwt
	Fresh water	0.327 mg/l
	Marine water	0.327 mg/l
	Sewage Treatment Plant	6.58 mg/l
	Fresh water sediment	12.46 mg/kg dwt
	Marine water sediment	12.46 mg/kg dwt
	Soil	2.31 mg/kg
	Fresh water - Assessment Factors	0.4 mg/l
xylene		
2-methylpropan-1-ol		

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ethylbenzene	Marine water - Assessment Factors	0.04 mg/l
	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Fresh water sediment - Equilibrium Partitioning	1.56 mg/kg dwt
	Marine water sediment	0.156 mg/kg dwt
	Soil - Equilibrium Partitioning	0.076 mg/kg dwt
toluene	Fresh water - Assessment Factors	0.1 mg/l
	Marine water - Assessment Factors	0.01 mg/l
	Sewage Treatment Plant - Assessment Factors	9.6 mg/l
	Fresh water sediment - Equilibrium Partitioning	13.7 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	1.37 mg/kg dwt
	Soil - Equilibrium Partitioning	2.68 mg/kg dwt
	Secondary Poisoning	20 mg/kg
	Fresh water - Sensitivity Distribution	0.68 mg/l
	Marine water - Sensitivity Distribution	0.68 mg/l
	Sewage Treatment Plant - Sensitivity Distribution	13.61 mg/l
	Fresh water sediment - Equilibrium Partitioning	16.39 mg/kg dwt
	Marine water sediment	16.39 mg/kg dwt

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

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

Eye/face protection

: Chemical splash goggles and face shield. Use eye protection according to EN 166.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Gloves

: butyl rubber

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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SECTION 8: Exposure controls/personal protection

Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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

Appearance

Physical state

Colour

Odour

Melting point/freezing point

Boiling point or initial boiling point and boiling range

Flammability

Lower and upper explosion limit

Flash point

Auto-ignition temperature

Decomposition temperature

pH

Viscosity

Viscosity

Solubility

Partition coefficient n-octanol/ water (log Pow)

Vapour pressure

: Liquid.

: Not available.

: Amine-like.

: Not determined.

: >37.78°C

: Not determined. There are no data available on the mixture itself.

: Not available.

: Closed cup: 27°C

:

: Stable under recommended storage and handling conditions (see Section 7).

: Not applicable. insoluble in water.

: Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): >21 mm²/s

: 30 - <40 s (ISO 6mm)

:

: Not applicable.

:

Ingredient name	°C	°F	Method
3,6-diazaoctanethylenediamin	337.78	640	

Media	Result
cold water	Not soluble

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SECTION 9: Physical and chemical properties

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
2-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			

Relative density	: 0.91
<u>Particle characteristics</u>	
Median particle size	: Not applicable.
9.2 Other information	
9.2.1 Information with regard to physical hazard classes	
Explosive properties	: The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties	: Product does not present an oxidizing hazard.
No additional information.	

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.	
Causes severe skin burns and eye damage.	
May cause an allergic skin reaction.	
Suspected of damaging fertility. Suspected of damaging the unborn child.	
May cause respiratory irritation.	
<u>Acute toxicity</u>	

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SECTION 11: Toxicological information

Product/ingredient name	Result	Dose / Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Rat - Dermal - LD50	>2000 mg/kg
xylene	Rat - Oral - LD50 Rat - Oral - LD50 Rabbit - Dermal - LD50	>2000 mg/kg 4.3 g/kg 1.7 g/kg
4-nonylphenol, branched	Rabbit - Dermal - LD50 Rat - Oral - LD50	2.14 g/kg 1300 mg/kg
2-methylpropan-1-ol	<i>Toxic effects:</i> Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight gain Rat - Oral - LD50 Rabbit - Dermal - LD50	2830 mg/kg 2460 mg/kg
2,4,6-tris(dimethylaminomethyl) phenol	Rat - Inhalation - LC50 Vapour Rat - Dermal - LD50	24.6 mg/l [4 hours] 1280 mg/kg
ethylbenzene	Rat - Oral - LD50 <i>Toxic effects:</i> Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Lung, Thorax, or Respiration - Dyspnea Rat - Oral - LD50 Rabbit - Dermal - LD50	1200 mg/kg 3.5 g/kg 17.8 g/kg
3,6-diazaoctanethylenediamin	Rat - Inhalation - LC50 Vapour Rabbit - Dermal - LD50	17.8 mg/l [4 hours] 1465 mg/kg
toluene	Rat - Oral - LD50 Rat - Oral - LD50 Rat - Inhalation - LC50 Vapour	1716 mg/kg 5580 mg/kg 49 g/m³ [4 hours]

Acute toxicity estimates

Route	ATE value
Oral	4522.9 mg/kg
Dermal	4937.92 mg/kg
Inhalation (vapours)	42.43 mg/l

Conclusion/Summary : Based on available data, the classification criteria are not met.

Irritation/Corrosion

Product/ingredient name	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Human - Skin - Irritant
-	Rabbit - Eyes - Severe irritant
xylene	Rabbit - Skin - Moderate irritant Amount/concentration applied: 500 mg Duration of treatment/exposure: 24 hours
4-nonylphenol, branched	Rabbit - Skin - Erythema/Eschar Irritation score: 4

Conclusion/Summary

Skin : Causes severe burns.

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SECTION 11: Toxicological information

Eyes : Causes serious eye damage.

Respiratory : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Product/ingredient name	Test	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Mouse - skin	Result: Sensitising
3,6-diazaoctanethylenediamin	Guinea pig - skin OECD 406	Result: Sensitising

Conclusion/Summary

Skin : May cause an allergic skin reaction.

Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects

Conclusion/Summary : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Ethylbenzene	Category 2	-	hearing organs
toluene	Category 2	-	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Aspiration hazard

Product/ingredient name	Result
Xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Conclusion/Summary : Based on available data, the classification criteria are not met.

Information on likely routes of exposure : Not available.

Potential acute health effects

Inhalation : May cause respiratory irritation.

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SECTION 11: Toxicological information

- Ingestion** : Corrosive to the digestive tract. Causes burns.
- Skin contact** : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

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

Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

Potential chronic health effects

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging fertility. Suspected of damaging the unborn child.
- Other information** :

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SECTION 11: Toxicological information

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

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

12.1 Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 4-nonylphenol, branched	EC10	Algae	1.78 mg/l [72 hours]
	Acute - LC50	Fish	0.221 mg/l [96 hours]
	Acute - EC50	Crustaceans - Water flea - <i>Moina macrocopa</i>	0.044 mg/l [48 hours]
2-methylpropan-1-ol 2,4,6-tris (dimethylaminomethyl)phenol	Acute - EC50	Algae - Green algae - <i>Raphidocelis subcapitata</i>	0.04 mg/l [72 hours]
	Acute - EC50	Daphnia	1100 mg/l [48 hours]
	Acute - LC50	Daphnia	>100 mg/l [48 hours]
ethylbenzene	Acute - LC50	Fish	>100 mg/l [96 hours]
	Acute - EC50 - Fresh water	Daphnia	1.8 mg/l [48 hours]
	Chronic - NOEC - Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	1 mg/l
toluene	EC50	Daphnia	3.78 mg/l [48 hours]
	LC50	Fish	5.5 mg/l [96 hours]

Conclusion/Summary : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
2,4,6-tris (dimethylaminomethyl)phenol	OECD [Ready Biodegradability - Closed Bottle Test]	4% [28 days] - Not readily	
ethylbenzene	-	79% [10 days] - Readily	

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SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene	-	-	Readily
2,4,6-tris(dimethylaminomethyl)phenol	-	-	Not readily
ethylbenzene	-	-	Readily
toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Xylene	3.12	7.4 to 18.5	Low
4-nonylphenol, branched	5.4	251.19	Low
2-methylpropan-1-ol	1	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
ethylbenzene	3.6	79.43	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low
toluene	2.73	90	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
2-methylpropan-1-ol	1.08	12.0246
2,4,6-tris(dimethylaminomethyl)phenol	2.72	525.589
ethylbenzene	2.23	170.406
3,6-diazaoctanethylenediamin	1.53	33.6474

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

May cause endocrine disruption.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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 minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste :	
<u>European waste catalogue (EWC)</u>	
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

<u>Packaging</u>	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN2920	UN2920	UN2920	UN2920
14.2 UN proper shipping name	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (4-nonylphenol, branched, xylene)
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)	8 (3)
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyamide)	Not applicable.

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SECTION 14: Transport information

Additional information

ADR/RID	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ADN	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation
Annex XIV

None of the components are listed.
Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Endocrine disrupting properties for environment	4-nonylphenol, branched	Candidate	ED/169/2012	12/19/2012

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	Entry Number (REACH)
SIGMACOVER 380 HARDENER 4-nonylphenol, branched toluene	3 46 48

Labelling : Not applicable.
Explosive precursors : Not applicable.
Ozone depleting substances (EU 2024/590)
Not listed.

Seveso Directive
This product is controlled under the Seveso Directive.
Danger criteria

Category
P5c E1

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SECTION 15: Regulatory information

National regulations

Fire class : II-1

Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
ethylbenzene	Listed	-

MAL-code : 4-5

Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/ protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 4-5
Application: When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns.

- Protective clothing must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied half mask, protective clothing and eye protection must be worn.

When spraying in new* booths if the operator is outside the spray zone.

- Air-supplied half mask and eye protection must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone. During non-atomising spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and protective clothing must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

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SECTION 15: Regulatory information

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Restrictions on use	: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
List of undesirable substances	: Listed
Carcinogenic waste	: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent and Very Bioaccumulative
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- IMDG = International Maritime Dangerous Goods
- IATA = International Air Transport Association

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

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SECTION 16: Other information

Classification	Justification
Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H225 H226 H302 H304 H312 H314 H315 H317 H318 H319 H332 H335 H336 H361d H361fd H373 H400 H410 H411 H412	Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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SECTION 16: Other information

History

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Date of previous issue	: 22 October 2024
Prepared by	: EHS
Version	: 2.06

Disclaimer

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