SAFETY DATA SHEET

: 1

Version

Europe

Date of issue/Date of revision : 3 September 2024

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

1.1 Product identifier		
Product name	: SIGMASHIELD 880 HARDENER	
Product code	: 00475640	
Other means of ident	tification	
Not available.		

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	: Coating.		
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 : Product.Stewardship.EMEA@ppg.com responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

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 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411

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

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Toxic to aquatic life with long lasting effects.
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	: Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol xylene m-phenylenebis(methylamine) Propylidynetrimethanol, propoxylated, reaction products with ammonia 2-methylpropan-1-ol
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.
Special packaging requirem	ents
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	: 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	: Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F.

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SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, 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]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥10 - ≤22	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	ATE [Oral] = 930 mg/ kg ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
Propylidynetrimethanol, propoxylated, reaction products with ammonia	REACH #: 01-2119556886-20 EC: 500-105-6 CAS: 39423-51-3	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤10	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	≥1.0 - ≤5.0	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	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
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SECTION 3: Composition/information on ingredients

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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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 effect	<u>'S</u>
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	: Harmful if swallowed.
Over-exposure signs/sympt	<u>oms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
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SECTION 4: First a	aid measures
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

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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 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 halogenated compounds Formaldehyde.
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.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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".

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SECTION 6: Accidental	release measures
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 co	ntainment 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. 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.
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.

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SECTION 7: Handling and storage

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	EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed		
	through skin.		
	STEL: 442 mg/m ³ 15 minutes.		
	STEL: 100 ppm 15 minutes.		
	TWA: 221 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
m-phenylenebis(methylamine)	ACGIH TLV (United States, 7/2023). Absorbed through skin.		
	C: 0.018 ppm		
benzyl alcohol	IPEL (-).		
	TWA: 5 ppm		
	STEL: 10 ppm		
2-methylpropan-1-ol	ACGIH TLV (United States, 7/2023).		
	TWA: 152 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.		
	STEL: 884 mg/m ³ 15 minutes.		
	STEL: 200 ppm 15 minutes.		
	TWA: 442 mg/m ³ 8 hours.		
	TWA: 100 ppm 8 hours.		

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	DMEL	Short term Dermal	8.3 µg/cm²	Workers	Local
xylene	DNEL DNEL DNEL DNEL DNEL DNEL	Long term Oral Long term Inhalation Long term Inhalation Long term Dermal Long term Dermal Long term Oral	6.25 mg/kg bw/day 8.7 mg/m ³ 29.39 mg/m ³ 62.5 mg/kg bw/day 104.15 mg/kg bw/day 5 mg/kg bw/day	General population General population Workers General population Workers General population	Systemic Systemic Systemic Systemic
Xylene	DNEL DNEL	Long term Inhalation	65.3 mg/m ³	General population General population	Local
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SECTION 8: Exposure controls/personal protection
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DNELLong term Dermal125 mg/kg bw/dayGeneral populationDNELLong term Dermal212 mg/kg bw/dayWorkersDNELLong term Inhalation221 mg/m³Workers	on Systemic Systemic
DNEL Long term Inhalation 221 mg/m ³ Workers	Systemic
	Local
DNEL Long term Inhalation 221 mg/m ³ Workers	Systemic
DNEL Short term Inhalation 260 mg/m ³ General population	on Local
DNEL Short term Inhalation 260 mg/m ³ General population	on Systemic
DNEL Short term Inhalation 442 mg/m ³ Workers	Local
DNEL Short term Inhalation 442 mg/m ³ Workers	Systemic
m-phenylenebis(methylamine) DNEL Long term Inhalation 0.2 mg/m ³ Workers	Local
DNEL Long term Dermal 0.33 mg/kg bw/day Workers	Systemic
DNEL Long term Inhalation 1.2 mg/m ³ Workers	Systemic
Propylidynetrimethanol, DNEL Long term Dermal 1.6 mg/kg bw/day Workers	Systemic
propoxylated, reaction	5
products with ammonia	
DNEL Long term Inhalation 14.1 mg/m ³ Workers	Systemic
benzyl alcohol DNEL Long term Oral 4 mg/kg bw/day General population	
DNEL Long term Dermal 4 mg/kg bw/day General population	
DNEL Long term Inhalation 5.4 mg/m ³ General population	
DNEL Long term Dermal 8 mg/kg bw/day Workers	Systemic
DNEL Short term Oral 20 mg/kg bw/day General population	
DNEL Short term Dermal 20 mg/kg bw/day General population	
DNEL Long term Inhalation 22 mg/m ³ Workers	Systemic
DNEL Short term Inhalation 27 mg/m ³ General population	
DNEL Short term Dermal 40 mg/kg bw/day Workers	Systemic
DNEL Short term Inhalation 110 mg/m ³ Workers	Systemic
2-methylpropan-1-ol DNEL Long term Inhalation 55 mg/m ³ General population	-
DNEL Long term Inhalation 310 mg/m ³ Workers	Local
2,4,6-tris DNEL Long term Oral 0.075 mg/kg bw/day General population	
(dimethylaminomethyl)phenol	
DNEL Short term Dermal 0.075 mg/kg bw/day General population	on Systemic
DNEL Long term Dermal 0.075 mg/kg bw/day General population	
DNEL Short term Inhalation 0.13 mg/m ³ General population	
DNEL Long term Inhalation 0.13 mg/m ³ General population	
DNEL Long term Dermal 0.15 mg/kg bw/day Workers	Systemic
DNEL Long term Inhalation 0.53 mg/m ³ Workers	Systemic
DNEL Short term Dermal 0.6 mg/kg bw/day Workers	Systemic
DNEL Short term Inhalation 2.1 mg/m ³ Workers	Systemic
ethylbenzene DMEL Long term Inhalation 442 mg/m ³ Workers	Local
DMEL Short term Inhalation 884 mg/m ³ Workers	Systemic
DNEL Long term Oral 1.6 mg/kg bw/day General population	
DNEL Long term Inhalation 15 mg/m ³ General population	
DNEL Long term Inhalation 77 mg/m ³ Workers	Systemic
DNEL Long term Dermal 180 mg/kg bw/day Workers	Systemic
DNEL Short term Inhalation 293 mg/m ³ Workers	Local
	LUCAI

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
xylene	-	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	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
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 SECTION 8: Exposure controls/personal protection

	-	Marine water sediment	0.156 mg/kg dwt	-	
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning	
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors	
	-	Marine water	0.01 mg/l	Assessment Factors	
	-	Sewage Treatment Plant	9.6 mg/l	Assessment Factors	
	-	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning	
	-	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning	
	-	Soil	2.68 mg/kg dwt	Equilibrium Partitioning	
	-	Secondary Poisoning	20 mg/kg	-	
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8.2 Exposure controls	Liss only with adequate ventilation. Liss process and surger local exhaust ventilation
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 meas	<u>sures</u>
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	: nitrile neoprene
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.
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.

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SECTION 8: Exposu	re controls/personal protection	
Respiratory protection	: Respirator selection must be based on known or antici hazards of the product and the safe working limits of th workers are exposed to concentrations above the export appropriate, certified respirators. Use a properly fitted complying with an approved standard if a risk assessme Wear a respirator conforming to EN140. Filter type: o particulate filter P3	he selected respirator. If osure limit, they must use , air-purifying or air-fed respirator nent indicates this is necessary.

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

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>					
Physical state	:	Liquid.			
Colour	:	Not available.			
Odour	:	Characteristic.			
Odour threshold	:	Not available.			
Melting point/freezing point		May start to solidify at the following temperature: $14^{\circ}C$ (57.2°F) This is based on data for the following ingredient: m-phenylenebis(methylamine). Weighted average: -35.8°C (-32.4°F)			
Initial boiling point and boiling range	:	>37.78°C			
Flammability	:	Not available.			
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)			
Flash point	:	Closed cup: 37°C			
Auto-ignition temperature	:				
		Ingredient name	°C	°F	Method
		Propylidynetrimethanol, propoxylated, reaction products with ammonia	320	608	EU A.15
Decomposition temperature	:	Stable under recommended sto	rage and	handling cond	litions (see Section 7).
pH	1	Not applicable.			
Viscosity	1	Kinematic (40°C): >21 mm²/s			
Solubility(ies)					
Solubility(ies) Media	<u> </u>	Result			

water

Vapour pressure

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

Eng	lish ((GB))

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SECTION 9: Physic	cal and chemical properties
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.51compared with butyl acetate
Relative density	: 1
Vapour density	: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.55 (Air = 1)

vapour density	. The field we have $(A = 1)$ (Ali = 1) (Ali = 1) (Ali = 1)
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.
Particle characteristics	
Median particle size	: Not applicable.
9.2 Other information	

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 halogenated compounds Formaldehyde.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Formaldehyde, oligomeric reaction	LD50 Oral	Rat	>10000 mg/kg	-
products with 1-chloro-2,3-epoxypropane				
and phenol				
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male,	>3100 mg/kg	-
		Female	00	
	LD50 Oral	Rat	930 mg/kg	-
Propylidynetrimethanol, propoxylated,	LD50 Dermal	Rabbit	0.4 g/kg	-
reaction products with ammonia			0.0	
·	LD50 Oral	Rat	0.22 g/kg	_
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m ³	4 hours
-	mists		,	
	LD50 Dermal	Rabbit	2000 mg/kg	_
	LD50 Oral	Rat	1.23 g/kg	_
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
			2	
English (GB)	Europe			11/18

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	LD50 Dermal Rabbit	2460 mg/kg - 2830 mg/kg -

	LD50 Oral	Rat	2830 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value
Oral	1552.75 mg/kg
Dermal	3476.78 mg/kg
Inhalation (gases)	26946.11 ppm
Inhalation (vapours)	51.4 mg/l
Inhalation (dusts and mists)	10.77 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
m-phenylenebis(methylamine)	Skin - Severe irritant	Rat		4 hours	4 hours

Conclusion/Summary

Skin :	There are no data available on the mixture itself.
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- Eyes : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
m-phenylenebis(methylamine)	skin	Mouse	Sensitising
Conclusion/Summary			

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	<u>:ity (single exposure)</u>

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

English (GB)	Europe	12/18
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Information on likely routes of exposure	: Not available.
Potential acute health effect	<u>s</u>
Inhalation	: May cause respiratory irritation.
Ingestion	: Harmful if swallowed.
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	vsical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects Long term exposure	: Not available.
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o 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	: No known significant effects or critical hazards.
Other information	: Not available.

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SECTION 11: Toxicological information

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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. 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

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Acute LC50 2.54 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,4,6-tris	OECD 301D	4 % - Not readily - 28 days	-	-
(dimethylaminomethyl)phenol	Ready			
	Biodegradability -			
	Closed Bottle			
	Test			
ethylbenzene	-	79 % - Readily - 10 days	-	-

Conclusion/Summary : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene	- - -	- - -	Readily Readily Not readily Readily

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	2.7	-	Low	
xylene	3.12	7.4 to 18.5	Low	
m-phenylenebis(methylamine)	0.18	2.69	Low	
Propylidynetrimethanol, propoxylated, reaction products with ammonia	-1.13	-	Low	
benzyl alcohol	0.87	-	Low	
2-methylpropan-1-ol	1	-	Low	
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low	
ethylbenzene	3.6	79.43	Low	

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or 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	

Hazardous waste

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

English (GB)	Europe	15/18
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SECTION 13: Disposal considerations

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 thorough internally. Avoid dispersal of spilt material and runoff and contact with soil, waterv drains and sewers. 	

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3470	UN3470	UN3470	UN3470
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE
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.	(Epoxy Resin)	Not applicable.

Additional information

ADR/RID	ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.		
Tunnel code	: (D/E)		
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 \leq 5 L or \leq 5 kg.		
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.			
14.6 Special prec user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		
14.7 Maritime tra bulk according to			

instruments

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SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c E2	
E2	

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued 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 Full text of abbreviated H statements

SECTION 16: Other information H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes server skin burns and eye damage. H315 Causes server skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye irritation. H322 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to acuatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. Full text of classifications [CLP/GHS] Acute Tox. 4 Aquatic Chronic 3 Acute Tox. 4 Aquatic Chronic 3 Skin Corr. 1 Skin Corr. 12 Skin Corr. 12 Skin Corr. 13 Skin CORROSION/IRRITATION - Category 2	Code : 00475640 SIGMASHIELD 880 HARDENER	Date of issue/Date of revision: 3 September 2024
H226 File figure and vapour. H302 Harmful if swallowed. H304 Harmful if swallowed. H304 Harmful if swallowed. H314 Causes series skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to quatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H412 Corrosive to the respiratory tract. Full text of classifications [CLP/GHS] Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Int. 2 Flam. Liq. 3 Skin Corr. 1B Skin Corr. 1C Skin Sens. 1 Skin	SECTION 16: Other informat	tion
H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H304 May be fatal if swallowed and enters airways. H304 May be fatal if swallowed and enters airways. H305 Harmful in contact with skin. Causes skin irritation. H316 Causes serious eye irritation. H317 May cause an allergic skin reaction. Causes serious eye irritation. H318 Causes serious eye irritation. H319 Causes serious eye irritation. H335 May cause drowsiness or dizziness. H336 May cause drowsiness or dizziness. H337 May cause drowsiness or dizziness. H338 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H411 Corrosive to the respiratory tract. Full toxt of classifications [CLP/GHS] Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Inti. 2 Filam. Liq. 3 Skin Corr. 1B Skin Corr. 1B Skin Corr. 1C Skin Sens. 1B Skin Corr. 1C Skin Sens. 1B Skin Sens. 13 Skin Sens. 13 Skin Sens. 13 Skin Sens. 13 Skin Sens. 14 Skin Sens. 15 Skin Sens. 15 Skin Sens. 15 Skin Sens. 16 Skin Sens. 16 Skin Sens. 17 Skin Sens. 18 Skin Sens. 18 Skin Sens. 18 Skin Sens. 19 Skin Sens. 10 Skin Sens. 10 Skin Sens. 10 Skin Sens. 10 Skin Sens. 10 Skin Sens. 10 Skin Sens. 13 Skin Sens. 13 Skin Sens. 14 Skin Sens. 15 Skin Sens. 15 Skin Sens. 15 Skin Sens. 15 Skin Sens. 16 Skin Sens. 17 Skin Sens. 17 Skin Sens. 18 Skin Sens. 18 Skin Sens. 19 Skin Sens. 19 Skin Sens. 19 Skin Sens. 19 Skin Sens. 19 Skin Sens. 10 Skin S	H225	Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes server skin burns and eye damage. H315 Causes servicus eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. Eull text of classifications [CLP/GHS] ACUTE TOXICITY - Category 4 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 3 FLAMMABLE LIQUIDS - Category 2 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1 Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1 SKIN SENSITISATI	H226	Flammable liquid and vapour.
H312 H314 H314 H314 H314 H316 H317 H317 H317 H318 Causes serious ever skin burns and ever damage. Causes serious ever skin ever attoron. H318 Causes serious ever damage. Causes serious ever damage. Causes serious ever damage. Causes serious ever intration. H318 H318 Causes serious ever intration. H319 H322 Harmful if inhaled. H335 May cause drowsiness or dizziness. H336 May cause drowsiness or dizziness. H336 H337 May cause drowsiness or dizziness. H338 H337 May cause drowsiness or dizziness. H336 H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 H411 H412 H411 H411 Toxic to aquatic life with long lasting effects. H412 H411 H412 H411 H412 H411 H412 H411 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Int. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1B Skin Corr. 1B Skin Corr. 1C Skin VCORROSION/IRRITATION - Category 1 Skin Sens. 1	H302	Harmful if swallowed.
H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause respiratory irritation. H336 May cause respiratory irritation. H336 May cause dowsiness or dizziness. H337 May cause dowsiness or dizziness. H338 May cause dowsiness or dizzines. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Corrosive to the respiratory tract. H411 Corrosive to the respiratory tract. H411 Corrosive to the respiratory tract. H411 Second 2 Aquatic Chronic 2 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Int. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Corr. 1B Skin Corr. 1B Skin Corr. 1C Skin Corr. 1C Skin Corr. 1C Skin Corr. 1C Skin Corr. 1C Skin Corr. 1C Skin Sens. 1 Skin S	H304	May be fatal if swallowed and enters airways.
H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause drowsiness or dizziness. H336 May cause drowsiness or dizziness. H337 May cause drowsiness or dizziness. H338 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Corrosive to the respiratory tract. EulHor1 C fclassifications [CLP/GHS] Acute Tox. 4 Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 1 Eye Dam. 2 Eye Dam. 1 Eye Dam. 2 Eye Dam. 1 Eye Dam. 1 Eye Dam. 3 Skin Corr. 1B Skin NCORROSION/IRRITATION - Category 1 Skin Sens. 1	H312	Harmful in contact with skin.
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H318 H319 H319 H322 H335 H335 H335 H336 H373 H336 H411 H11 H11 H11 H11 H11 H11 H11 H11 H1	H315	Causes skin irritation.
H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harring of discrete for the serious eye irritation. H335 May cause drowsiness or discress. H336 May cause drowsiness or discress. H336 May cause drowsiness or discress. H337 May cause drowsiness or discress. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Cause drowsiness or discress. H411 Toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. Eulitext of classifications [CLP/GHS] Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Dam. 1 Eye Irrit. 2 Filam. Liq. 2 Filam. Liq. 2 Filam. Liq. 3 Skin Corr. 10 Skin Corr. 10 Skin Corr. 10 Skin Sens. 1 Skin Sens. 1 Stin Sens. 1 Stort RE 2 STOT RE 2 STOT RE 2 STOT RE 3 Stort Set 3	H317	May cause an allergic skin reaction.
H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause drowsiness or dizziness. H373 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. Eult text of classifications [CLP/GHS] Cong-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Sep Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Init. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 1 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1 Skin Sens. 1 SKIN SENSITISATION - Category 1	H318	
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H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. Full text of classifications [CLP/GHS] ACUTE TOXICITY - Category 4 Acute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Sep Tox. 1 ASPIRATION HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 3 Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1 Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1 Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1B SKIN SENSITISATION - Category 1B STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSUF Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 Story 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 Hamade Ander Ander Ander Ander Ander		May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. Full text of classifications [CLP/GHS] Acute Tox. 4 Aquatic Chronic 2 ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Asp. Tox. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 3 Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1 Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1 Skin Sens. 1 SKIN CORROSION/IRRITATION - Category 1 Skin Sens. 1 SKIN SENSITISATION - Category 1 Stin Sens. 1 SKIN SENSITISATION - Category 1 Stort RE 2 <t< td=""><td></td><td></td></t<>		
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Date of previous issue	: No previous validation
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