SAFETY DATA SHEET

Date of issue/Date of revision

: 9 October 2024

Version : 1.1

Denmark

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

1.1 Product identifier

Product name

: SIGMASHIELD 420/460/880/880GF HARDENER

Product code

: 000001189596

Other means of identification

00446815; 00446816; 00446819

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	: <mark>F</mark> ardener.; 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 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. Lig. 3, H226 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.



Code	: 000001189596	Date of issue/Date of revision	: 9 October 2024
SIGMASHIELD 420/460/880/880GF HARDENER			

SECTION 2: Hazards identification

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

2.2 Label elements Hazard pictograms

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Signal word	1	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. Harmful to aquatic life with long lasting effects.	
Precautionary statements			
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.	
Response	:	IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor.	
Storage	1	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, P304 + P310, P301 + P310, P403 + P233, P501	
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	nen	ts	
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.	

Code

: 000001189596

Date of issue/Date of revision

: 9 October 2024

SIGMASHIELD 420/460/880/880GF HARDENER

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
₽poxy Amine Resin	CAS: SUB123903	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[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]
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 Eye Irrit. 2, H319 Skin Sens. 1B, H317	ATE [Oral] = 1200 mg/ kg	[1]
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]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥1.0 - <5.0	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]
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 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
English (GB)	•		Denmark	•	3/20

Code : 000001189596 Date of issue/Date of revision : 9 October 2024

SIGMASHIELD 420/460/880/880GF HARDENER

SECTION 3: Composition/information on ingredients

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

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

English (GB)	Denmark	4/2
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	
	Adverse symptoms may include the following: respiratory tract irritation coughing	
Eye contact :	Adverse symptoms may include the following: pain watering redness	
Over-exposure signs/symptom	<u>15</u>	
Ingestion :	Harmful if swallowed.	
Skin contact :	Causes severe burns. Defatting to the skin. May cause an allergic skin read	tion.
Inhalation :	May cause respiratory irritation.	
Eye contact :	Causes serious eye damage.	
Potential acute health effects		

Code	: 000001189596	Date of issue/Date of revision	: 9 October 2024	
SIGMASHIE	LD 420/460/880/880GF HARDENER			

SECTION 4: First aid measures

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, 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

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 harmful 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.

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.

6.3 Methods and material for containment and cleaning up

English (GB) Denmark	5/20
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	01189596 460/880/880GF HARDEN	Date of issue/Date of revision	: 9 October 2024
SECTION 6: Ad	ccidental release	measures	
Small spill	explosion-p or if water-ii	without risk. Move containers from spill are roof equipment. Dilute with water and mop nsoluble, absorb with an inert dry material ar ntainer. Dispose of via a licensed waste disp	up if water-soluble. Alternatively, nd place in an appropriate waste
Large spill		without risk. Move containers from spill are roof equipment. Approach the release from	

	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.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

English (GB)	Denmark	6/20

Code : 000001189596 Date of issue/Date of revision : 9 October 2024

SIGMASHIELD 420/460/880/880GF HARDENER

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, 2/2023) [xylen, alle		
	isomere] Absorbed through skin.		
	TWA 8 hours: 25 ppm.		
	TWA 8 hours: 109 mg/m ³ .		
	STEL 15 minutes: 442 mg/m ³ .		
	STEL 15 minutes: 100 ppm.		
2-methylpropan-1-ol	Working Environment Authority (Denmark, 2/2023) [butanol, alle		
	isomere] Absorbed through skin.		
	CEIL: 50 ppm.		
	CEIL: 150 mg/m ³ .		
m-phenylenebis(methylamine)	Working Environment Authority (Denmark, 2/2023) Absorbed		
	through skin.		
	CEIL: 0.02 ppm.		
	CEIL: 0.1 mg/m ³ .		
ethylbenzene	Working Environment Authority (Denmark, 2/2023) K. Absorbed		
	through skin.		
	TWĂ 8 hours: 50 ppm.		
	TWA 8 hours: 217 mg/m ³ .		
	STEL 15 minutes: 434 mg/m ³ .		
	STEL 15 minutes: 100 ppm.		

Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure procedures 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
x ylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
Propylidynetrimethanol, propoxylated, reaction products with ammonia	DNEL	Long term Dermal	1.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	14.1 mg/m ³	Workers	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
English (GB)			Denmark		7/20

Code : 000001189596

SIGMASHIELD 420/460/880/880GF HARDENER

Date of issue/Date of revision

: 9 October 2024

SECTION 8: Exposure controls/personal protection

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	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	5.4 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	22 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m³	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m³	Workers	Systemic
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m³	General population	Local
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local
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
2,4,6-tris	DNEL	Long term Oral	0.075 mg/kg bw/day	General population	Systemic
(dimethylaminomethyl)phenol		-			-
	DNEL	Short term Dermal	0.075 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.075 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.13 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	0.13 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.53 mg/m³	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/m³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
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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
	-	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	-

8.2 Exposure controls

English (GB) Denmark	8/20

Code : 000001189596		Date of issue/Date of revision : 9 October 2024				
SIGMASHIELD 420/460/880/880GF HARDENER						
SECTION 8: Exposure) C	controls/personal protection				
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 measured	res					
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	4	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	1	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.				
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.				

Code	: 000001189596	Date of issue/Date of revision	: 9 October 2024
SIGMASHIEL	D 420/460/880/880GF HARDENER		

SECTION 9: Physical and chemical properties

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

Appearance								
Physical state	:	Liquid.						
Colour	:	Colourless.						
Odour	:	Amine-like. [Strong]						
Melting point/freezing point	:	Not determined.						
Boiling point or initial boiling point and boiling range	:	>37.78°C						
Flammability		Not determined. There are no data available on the mixture itself.						
Lower and upper explosion limit	:	Not available.						
Flash point	:	Closed cup: 44°C						
Auto-ignition temperature	:							
		Ingredient name		°C	°F		Method	
		Propylidynetrimethanol, reaction products with ar		320	608	E	EU A.15	
Decomposition temperature	:	Stable under recom	mended st	orage a	nd handling	conditions	s (see Sec	tion 7).
рН	1	Not applicable. insol	luble in wa	ter.				
Viscosity	:	Øynamic (room tem Kinematic (room tem Kinematic (40°C): >2	nperature)					
Viscosity	:	60 - 100 s (ISO 6mn	n)					
Solubility	1							
Solubility Media	:	Result						
Solubility Media cold water	:	Result Not soluble						
Media cold water Partition coefficient n-octanol/	:							
Media cold water Partition coefficient n-octanol/ water (log Pow)	:	Not soluble		ır Press	sure at 20°C	Var	Dour press	sure at 50°
Media cold water Partition coefficient n-octanol/ water (log Pow)		Not soluble	Vapou mm Hg		sure at 20°C Method	Var mm Hg	oour press	sure at 50° Method
Media cold water Partition coefficient n-octanol/ water (log Pow)		Not soluble Not applicable.		kPa	1	mm		1
Media cold water Partition coefficient n-octanol/ water (log Pow) Vapour pressure	:	Not soluble Not applicable.	mm Hg	kPa	Method DIN EN	mm		1
Media cold water Partition coefficient n-octanol/ water (log Pow) Vapour pressure Relative density	:	Not soluble Not applicable. Ingredient name Image: The state of the	mm Hg	kPa	Method DIN EN	mm		1
Media cold water Partition coefficient n-octanol/ water (log Pow) Vapour pressure Relative density Particle characteristics	:	Not soluble Not applicable. Ingredient name Image: The state of the	mm Hg	kPa	Method DIN EN	mm		sure at 50° Method
Media cold water Partition coefficient n-octanol/ water (log Pow) Vapour pressure Relative density Particle characteristics Median particle size	:	Not soluble Not applicable. Ingredient name Impredient nampredient nampredient name	mm Hg	kPa	Method DIN EN	mm		1
Media cold water Partition coefficient n-octanol/ water (log Pow) Vapour pressure Relative density Particle characteristics Median particle size .2 Other information	:	Not soluble Not applicable. Ingredient name Impredient nampredient nampredient name	mm Hg	kPa	Method DIN EN	mm		1
Media cold water Partition coefficient n-octanol/ water (log Pow) Vapour pressure Relative density Particle characteristics Median particle size	: : : : ph	Not soluble Not applicable. Ingredient name Impredient nampredient nampredient name	<pre>mm Hg <12.00102 </pre>	kPa <1.6	Method DIN EN 13016-2	mm Hg	kPa	Method
Media cold water Partition coefficient n-octanol/ water (log Pow) Vapour pressure Relative density Particle characteristics Median particle size 0.2 Other information 9.2.1 Information with regard to	: : : pph	Not soluble Not applicable. Ingredient name Mot applicable. Ingredient name Mot applicable. Not applicable. Not applicable. The product itself is	<pre>mm Hg <12.00102 </pre> <pre>ses not explos air is possi</pre>	kPa <1.6 ive, but ble.	Method DIN EN 13016-2	mm Hg	kPa	Method

Code	: 000001189596	Date of issue/Date of revision	: 9 October 2024
SIGMASH	ELD 420/460/880/880GF HARDENER		

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.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
x ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Propylidynetrimethanol, propoxylated,	LD50 Dermal	Rabbit	0.4 g/kg	-
reaction products with ammonia				
	LD50 Oral	Rat	0.22 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male,	>3100 mg/kg	-
		Female		
	LD50 Oral	Rat	930 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	-

Acute toxicity estimates

Code : 000001189596 Date of issue/Date of revision : 9 October 2024 SIGMASHIELD 420/460/880/880GF HARDENER

SECTION 11: Toxicological information

Route	ATE value
Øral	1958.14 mg/kg
Dermal	3494.9 mg/kg
Inhalation (gases)	108958.84 ppm
Inhalation (vapours)	51.63 mg/l

: Harmful if swallowed. **Conclusion/Summary**

Irritation/Corrosion

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

Conclusion/Summary

Skin Eyes : Causes severe burns.

- - : Zauses serious eye damage. : Based on available data, the classification criteria are not met.
- Respiratory

Respiratory or skin sensitization

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

Conclusion/Summary

- Skin
- Respiratory

: May cause an allergic skin reaction.

: 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

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

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Specific target organ toxicity (single exposure)

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

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

Conclusion/Summary

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

ode : 000001189596 IGMASHIELD 420/460/880/8			Date of revision : 9 October 2024
SECTION 11: Toxico	log	ical information	
Product/	ingre	edient name	Result
xylene ethylbenzene			ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Conclusion/Summary	:		
Based on available data, the	clas	sification criteria are not met.	
Information on likely routes of exposure	: 1	Not available.	
Potential acute health effec	ts		
Inhalation	: 1	May cause respiratory irritation.	
Ingestion	: 1	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 pl	<u>iysic</u>	al, chemical and toxicological c	haracteristics
Inhalation	r	Adverse symptoms may include th respiratory tract irritation coughing	e following:
Ingestion		Adverse symptoms may include th stomach pains	e following:
Skin contact	F r c	Adverse symptoms may include th pain or irritation redness dryness cracking plistering may occur	e following:
Eye contact	: / / /	Adverse symptoms may include th pain watering redness	e following:
Delayed and immediate effe	ects a	as well as chronic effects from s	short and long-term exposure
Short term exposure			
Potential immediate effects		No known significant effects or crit	
•	: 1	No known significant effects or crit	ical hazards.
Long term exposure Potential immediate effects	: 1	No known significant effects or crit	ical hazards.
	: 1	No known significant effects or crit	ical hazards.
Potential chronic health eff		v	
General	C		defat the skin and lead to irritation, cracking and/c ere allergic reaction may occur when subsequently
Carcinogenicity	: 1	No known significant effects or crit	ical hazards.
Mutagenicity	: 1	No known significant effects or crit	ical hazards.
Reproductive toxicity	: 1	No known significant effects or crit	ical hazards.
Other information			

Code : 000001189596

SIGMASHIELD 420/460/880/880GF HARDENER

Date of issue/Date of revision

: 9 October 2024

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. 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

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

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	Exposure
∕∠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	Daphnia -	-
	water	Ceriodaphnia dubia	

Conclusion/Summary : Marmful 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 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 da	iys	-	-
ethylbenzene	-	79 % - Readily - 10 days	6	-	-
Product/ingredient name		Aquatic half-life	Photo	lysis	Biodegradability
✓ylene benzyl alcohol 2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene		- - - -	- - -		Readily Readily Not readily Readily

12.3 Bioaccumulative potential

Engli	ish (GB)	Denmark	14/20

 Code
 <th::000001189596</th>
 Date of issue/Date of revision
 : 9 October 2024

 SIGMASHIELD 420/460/880/880GF HARDENER

SECTION 12: Ecological information

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

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

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

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

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.

Type of packaging		European waste catalogue (EWC)	
Container	15 01 06	mixed packaging	
	•		

Code	: 000001189596
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Date of issue/Date of revision

: 9 October 2024

SIGMASHIELD 420/460/880/880GF HARDENER

SECTION 13: Disposal considerations

Special precautions
 This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3469	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
14.4 Packing group		Ш	=	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID: None identified.Tunnel code: (D/E)ADN: The product is only regulated as an environmentally hazardous substance when transported in tank
vessels.IMDG: None identified.IATA: None identified.

14.6 Special precautions for user 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	: Not applicable.
bulk according to IMO	
instruments	

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

English (GB)

Conforms to Regulation (EC) No	. 1907/2006 (REACH), Annex II, as amended by Commission Regulatior	ו (EU)
2020/878		

Code	: 000001189596	Date of issue/Date of revision	: 9 October 2024		
SIGMASHIELD 420/460/880/880GF HARDENER					
SECTION 15: Regulatory information					

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles			
Product/ingredient name			ry Number(REACH)
SIGMASHIELD 420/460/880/880GF HARDENER		3	
Labelling	: Not applicable.		
Explosive precursors Ozone depleting substance	: Not applicable. ces (1005/2009/EU)		
Not listed.			
Seveso Directive This product is controlled un Danger criteria	der the Seveso Directive.		
Category			
P5c			
National regulations			
Fire class	: 📭 1		
Executive Order No. 1795/2	015	1	
Ingredient name		Annex I Section A	Annex I Section B
ethylbenzene		Listed	-
MAL-code	: 3-5		
Protection based on MAL	 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: 3-5 Application: When using scraper or kni treatments in a spray booth where the op working in similar new* facilities of the cortype where the operator is working inside and cabins with non-atomizing guns. Protective clothing must be worn. During downtimes, cleaning and repair in there is a risk of contact with wet paint or brush, roller, etc, for pre- and post-treatment type, if the operator is inside the spray zo etc. for pre- and post-treatments outside 	berator is outside the s ombined-cabin, spray- e the spray zone. Whe n closed facilities, spra r organic solvents. Wh nents in cabins or boo one. When using scra	spray zone and when cabin and spray-booth n spraying in new* booths y booths or cabins, if hen using scraper or knife, ths of the existing* facility per or knife, brush, roller,

English (GB)	Denmark	17/20

Code : 000001189596 SIGMASHIELD 420/460/880/880GF HARDENER	Date of issue/Date of revision	: 9 October 2024
SIGMASHIELD 420/400/000/000GF HARDENER		
SECTION 15: Regulatory information		

- 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.

- 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.

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.

: Listed

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

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.

Code	: 000001189596	Date of issue/Date of revision	: 9 October 2024
SIGMASHIE	D 420/460/880/880GF HARDENER		

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]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H302	Calculation method
Skin Corr. 1C, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
Full text of classifications [CLP	/GHS]
Acute Tox 4	ACLITE TOXICITY - Category 4

English (GB)	Denmark	19/20	
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C	SKIN CORROSION/IRRITATION - Category 1C	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B		
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	FLAMMABLE LIQUIDS - Category 3	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	FLAMMABLE LIQUIDS - Category 2	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Categ	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Categ	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1		
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca	tegory 3	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Ca	tegory 2	
Acute Tox. 4	ACUTE TOXICITY - Category 4		

Code : 000001189596 SIGMASHIELD 420/460/880/880GF HARDENER	Date of issue/Date of revision: 9 October 2024	
SECTION 16: Other information		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -	
	Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -	
	Category 3	

<u>History</u>	

Date of issue/ Date of revision	: 9 October 2024
Date of previous issue	: 17 April 2024
Prepared by	: EHS
Version	: 1.1

Disclaimer

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