# SAFETY DATA SHEET

Date of issue/Date of revision : 2 September 2023 : 26 Version



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

1.1 Product identifier

**Product name** : SIGMASHIELD 220/420/460/880/880GF HARDENER

: 00190962 **Product code** 

Other means of identification

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

Varossieau Suriname NV, Mastanaweg 4, Paramaribo,

**SURINAME** 

Tel: 00597 484447 Fax: 00597 483785

e-mail address of person responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone

number

: 0031 (0)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]

Mam. Liq. 3, H226 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F **STOT SE 3, H335** 

Aquatic Chronic 1, H410

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.

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

# 2.2 Label elements

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# **SECTION 2: Hazards identification**

**Hazard pictograms** 









Signal word Danger

Fammable liquid and vapour. **Hazard statements** 

Causes severe skin burns and eye damage.

May cause an allergic skin reaction. May cause respiratory irritation.

May damage fertility.

Very toxic 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. Avoid

release to the environment.

Response : Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. **Storage** 

Dispose of contents and container in accordance with all local, regional, national and **Disposal** 

international regulations.

P280, P210, P273, P391, P403 + P233, P501

**Hazardous ingredients** : Epoxy Amine Resin

xylene

Propylidynetrimethanol, propoxylated, reaction products with ammonia

2-methylpropan-1-ol

bisphenol A

m-phenylenebis(methylamine)

2,4,6-tris(dimethylaminomethyl)phenol

Supplemental label

elements

: Not applicable.

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

: Restricted to professional users.

**Special packaging requirements** 

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.

May cause endocrine disruption.

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

3.2 Mixtures : Mixture

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<b>E</b> 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 Index: 601-022-00-9	≥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	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 - ≤17	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	≥5.0 - ≤10	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]
bisphenol A	REACH #: 01-2119457856-23 EC: 201-245-8 CAS: 80-05-7 Index: 604-030-00-0	≥1.0 - ≤5.0	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 10	[1] [2] [3]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	≥1.0 - ≤4.3	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]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9	≥0.30 - ≤2.6	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280	[1]

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SIGMASHIELD 220/420/460/880/880GF HARDENER	
SECTION 3: Composition/information on ingredients	
CAS: 90-72-2 Eye Dam. 1, H318 mg/kg	
See Section 16 for the full text of the H statements declared	

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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene.

### Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern

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

SUB codes represent substances without registered CAS Numbers.

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running water for

at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show the container or label. Keep

person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : May cause respiratory irritation.

**Skin contact**: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

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# **SECTION 4: First aid measures**

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

stomach pains

reduced foetal weight increase in foetal deaths skeletal malformations

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, 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

: Fammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials: carbon oxides

nitrogen oxides

# 5.3 Advice for firefighters

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# 6.2 Environmental precautions

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

# 6.3 Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

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

# 6.4 Reference to other sections

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

# **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

**Protective measures** 

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

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# **SECTION 7: Handling and storage**

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

# SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

### **Occupational exposure limits**

Product/ingredient name	Exposure limit values		
<b>x</b> ýlene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]		
	Absorbed through skin.		
	STEL: 442 mg/m³ 15 minutes.		
	STEL: 100 ppm 15 minutes.		
	TWA: 221 mg/m³ 8 hours.		
	TWA: 50 ppm 8 hours.		
benzyl alcohol	IPEL (-).		
	TWA: 5 ppm		
	STEL: 10 ppm		
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2022).		
	TWA: 152 mg/m³ 8 hours.		
	TWA: 50 ppm 8 hours.		
bisphenol A	EU OEL (Europe, 1/2022).		
	TWA: 2 mg/m³ 8 hours. Form: Inhalable fraction		
m-phenylenebis(methylamine)	ACGIH TLV (United States, 1/2022). Absorbed through skin.		
	C: 0.018 ppm		
ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin.		
	STEL: 884 mg/m³ 15 minutes.		
	STEL: 200 ppm 15 minutes.		
	TWA: 442 mg/m <sup>3</sup> 8 hours.		
	TWA: 100 ppm 8 hours.		

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**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	Type	Exposure	Value	Population	Effects
<b>x</b> ýlene	DNEL	Short term Inhalation	260 mg/m³	General	Systemic
		<b>.</b>		population	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General	Local
				population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Inhalation	65.3 mg/m³	General	Systemic
				population	
	DNEL	Long term Oral	12.5 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General	Local
				population	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General	Local
				population	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General	Systemic
				population	
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Inhalation	65.3 mg/m³	General	Systemic
				population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
Propylidynetrimethanol, propoxylated,	DNEL	Long term Dermal	1.6 mg/kg bw/day	Workers	Systemic
eaction products with ammonia					
	DNEL	Long term Inhalation	14.1 mg/m³	Workers	Systemic
penzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Dermal	4 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Inhalation	5.4 mg/m³	General	Systemic
				population	
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	General	Systemic
				population	
	DNEL	Short term Dermal	20 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Inhalation	22 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General	Systemic
				population	
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic

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DNEL   Dne term   Dnemal   D				Suriname		
DNEL   Dne term inhalation   DNEL		DNEL	Short term Inhalation		Workers	Local
DNEL		DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
DNEL						
DNEL		DNEL	Long term Inhalation	15 mg/m³		Systemic
DNEL   Long term Inhalation   DNEL   Systemi   DNEL   Dne term Inhalation   DNEL   Dne term Inh	ethylbenzene				General	Systemic
DNEL   Long term Inhalation   DNEL   Cong term Dermal   DNEL   Cong term Inhalation   DNEL   Cong term Inhalat						Systemic
DNEL   DNEL   Long term Inhalation   DNEL   Dnet	m-phenylenebis(methylamine)					
DNEL					population	
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL						Systemic
bisphenol A  DNEL DNEL Short term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Dong term Inhalation DNEL Dong term Dermal DNEL Dong term Dermal DNEL Dong term Inhalation DNEL Dong term Dermal DNEL Dong term Inhalation DNEL DNEL Dong term Inhalation DNEL DNEL Dneg term Inhalation DNEL DNEL Dneg term Inhalation DNEL DNEL Dneg term Inhalation DNED DN						Systemic
bisphenol A    DNEL DNEL DNEL DNEL DNEL Short term Inhalation DNEL Dong term Dermal DNEL Dong term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				2 mg/m³		
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL					Workers	Local
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Short ferm inhalation	i mg/m²		Systemic
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNE	Short torm Inhalation	1 mg/m <sup>3</sup>		Systemia
bisphenol A    DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Long term Inhalation	1 mg/m³	General	Local
bisphenol A    DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Snort term Inhalation	1 mg/m³		Local
bisphenol A    DNEL				day		
bisphenol A    DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				day		Systemic
bisphenol A    DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				day	population	
bisphenol A    DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				day	population	
bisphenol A    DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				day	population	
bisphenol A  DNEL   Long term Inhalation   DNEL   Short term Dermal   DNEL   Long term Inhalation   DNEL   Long term Dermal   Local   Local				day	population	
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				day	population	
bisphenol A    DNEL   D				day	population	
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				day	population	-
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL				day	population	
bisphenol A  DNEL Disphenol A  Dis					population	
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL					population	
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL					population	Systemic
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Long term Inhalation			Systemic
bisphenol A  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Short term Dermal	0.031 mg/kg bw/	Workers	Systemic
bisphenol A DNEL Long term Inhalation 2 mg/m³ Workers Systemic 2 mg/m³ Workers Systemic 2 mg/m³ Workers Systemic 2 mg/m³ Workers Local				0.031 mg/kg bw/		Systemic
bisphenol A DNEL Long term Inhalation 2 mg/m³ Workers Systemic 2 mg/m³ Workers Systemic Syste						
bisphenol A DNEL Long term Inhalation 2 mg/m³ Workers Systemic						•
	bisphenol A					
		DNEL	Long term Inhalation	310 mg/m³	Workers	Local
population	2-methypropan-1-or	DIVLE	Long term initialation	33 mg/m		Local
DNEL Short term Inhalation 110 mg/m³ Workers Systemic 2-methylpropan-1-ol DNEL Long term Inhalation 55 mg/m³ General Local	2-methylpropan-1-ol					

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					1
	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
2,4,6-tris(dimethylaminomethyl)phenol	DNEL	Long term Oral	0.075 mg/kg bw/	General	Systemic
			day	population	-
	DNEL	Short term Dermal	0.075 mg/kg bw/	General	Systemic
			day	population	-
	DNEL	Long term Dermal	0.075 mg/kg bw/	General	Systemic
			day	population	
	DNEL	Short term Inhalation	0.13 mg/m <sup>3</sup>	General	Systemic
			· ·	population	-
	DNEL	Long term Inhalation	0.13 mg/m <sup>3</sup>	General	Systemic
				population	
	DNEL	Long term Dermal	0.15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.53 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	0.6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.1 mg/m <sup>3</sup>	Workers	Systemic
		1	_	ı	1 -

#### **PNECs**

Product/ingredient name	Type	Compartment Detail	Value	<b>Method Detail</b>
<b>x</b> ylene	-	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
bisphenol A	-	Fresh water	0.018 mg/l	Sensitivity Distribution
•	-	Marine water	0.018 mg/l	Sensitivity Distribution
	-	Sewage Treatment Plant	320 mg/l	Assessment Factors
	-	Fresh water sediment	1.2 mg/kg dwt	Assessment Factors
	-	Marine water sediment	0.24 mg/kg dwt	Assessment Factors
	-	Soil	3.7 mg/kg dwt	Assessment Factors
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

Appropriate engineering controls

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

# **Individual protection measures**

**Hygiene measures** 

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

**Eye/face protection** 

: Chemical splash goggles and face shield.

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#### **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 antistatic 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.

# SECTION 9: Physical and chemical properties

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

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

### **Appearance**

Physical state : Liquid.

Colour : Various

Odour : Amine-like.

Odour threshold : Not available.

Melting point/freezing point

: May start to solidify at the following temperature: 14°C (57.2°F) This is based on data for the following ingredient: m-phenylenebis(methylamine). Weighted average:

-52.5°C (-62.5°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: 36°C

Auto-ignition temperature : 305°C (581°F)

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# SECTION 9: Physical and chemical properties

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

pН Not applicable. insoluble in water. **Viscosity** Kinematic (40°C): >21 mm<sup>2</sup>/s

> 100 s (ISO 6mm) **Viscosity** 

Solubility(ies)

Media	Result
<mark>ø</mark> old water	Not soluble

Partition coefficient: n-octanol/: Not applicable.

water

Vapour pressure

Ingredient neme	Vapou	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
methylpropan-1-ol	<12	<1.6	DIN EN 13016-2				

**Evaporation rate** : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.55compared with

butyl acetate

Relative density 1.02

Vapour density : Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.53 (Air = 1)

The product itself is not explosive, but the formation of an explosible mixture of **Explosive properties** 

vapour or dust with air is possible.

**Oxidising properties** 

**Particle characteristics** 

Median particle size

: Product does not present an oxidizing hazard.

: 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

10.4 Conditions to avoid

: Under normal conditions of storage and use, hazardous reactions will not occur.

Refer to protective measures listed in sections 7 and 8.

: Keep away from the following materials to prevent strong exothermic reactions: 10.5 Incompatible materials

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products Depending on conditions, decomposition products may include the following materials:

: When exposed to high temperatures may produce hazardous decomposition products.

carbon oxides nitrogen oxides

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# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Propylidynetrimethanol, propoxylated, reaction products with ammonia	LD50 Dermal	Rabbit	0.4 g/kg	-
'	LD50 Oral	Rat	0.22 g/kg	_
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m³	4 hours
	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
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
bisphenol A	LD50 Dermal	Rabbit	3600 mg/kg	-
·	LD50 Oral	Rat	3.25 g/kg	-
m-phenylenebis(methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 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	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal	Rat	1280 mg/kg	_
	LD50 Oral	Rat	1200 mg/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
wylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
m-phenylenebis(methylamine)	Skin - Severe irritant	Rat		4 hours	4 hours
2,4,6-tris(dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit		4 hours	7 days

# **Conclusion/Summary**

Skin: There are no data available on the mixture itself.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**

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.

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# **SECTION 11: Toxicological information**

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

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

# Specific target organ toxicity (repeated exposure)

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

### **Aspiration hazard**

Product/ingredient name	Result	
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

Information on likely routes of exposure

: Not available.

Potential acute health effects

Inhalation : May cause respiratory irritation.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact**: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

**Eye contact** : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking blistering

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

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

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# **SECTION 11: Toxicological information**

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects: Not available.

**Long term exposure** 

Potential immediate

effects

: Not available.

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.Mutagenicity : No known significant effects or critical hazards.

**Reproductive toxicity**: May damage fertility.

Other information : Not available.

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

May cause endocrine disruption.

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>2</b> -methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
bisphenol A	Acute LC50 0.885 mg/l Fresh water	Crustaceans	48 hours
	Acute LC50 8.11 mg/l Fresh water	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	48 hours
	Acute LC50 4.6 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 0.000174 mg/ I Fresh water	Fish	5 months
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

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

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# **SECTION 12: Ecological information**

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene ethylbenzene	-	79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>k</b> ylene	-	-	Readily
benzyl alcohol	-	-	Readily
bisphenol A	-	-	Readily
ethylbenzene	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> 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
bisphenol A	3.4	43.65	Low
m-phenylenebis(methylamine)	0.18	2.69	Low
ethylbenzene	3.6	79.43	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low

## **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Coefficient (Noc)

**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

May cause endocrine disruption.

# 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

#### **Product**

**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 : Yes.

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# **SECTION 13: Disposal considerations**

### 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

### **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	IMDG	IATA
14.1 UN number or ID number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	III	III	III
14.5 Environmental hazards	<b>y</b> es.	<b>y</b> es.	▼es. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.		Not applicable.

### **Additional information**

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ADR/RID

≤5 kg.

**Tunnel code** 

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

user

14.6 Special precautions 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 Transport in bulk according to IMO instruments

: Not applicable.

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# **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction Endocrine disrupting properties for human health	4,4'-isopropylidenediphenol 4,4'-isopropylidenediphenol		ED/01/2018 ED/01/2018	10/1/2019 10/1/2019
Endocrine disrupting properties for environment	4,4'-isopropylidenediphenol	Recommended	ED/01/2018	10/1/2019

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

Ozone depleting substances (1005/2009/EU)

Not listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

# **Danger criteria**

# **Category**

**₽**5c E1

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** : ATE = Acute Toxicity Estimate

acronyms CLP = Classification, Labelling and Packaging Regulation (EC) No.

1272/20081

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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

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# **SECTION 16: Other information**

Classification	Justification
Fam. Liq. 3, H226	On basis of test data
Skin Corr. 1C, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360F	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H	_		
statements			

: **H**225 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.

H360F May damage fertility.

May cause damage to organs through prolonged or repeated exposure. H373

H400 Very toxic to aquatic life.

H410 Very 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.

# Full text of classifications [CLP/GHS]

Acute Tox. 4 **ACUTE TOXICITY - Category 4** Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Repr. 1B REPRODUCTIVE TOXICITY - Category 1B Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B Skin Corr. 1C SKIN CORROSION/IRRITATION - Category 1C Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITISATION - Category 1

SKIN SENSITISATION - Category 1B Skin Sens. 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

**EXPOSURE - Category 2** 

SPECIFIC TARGET ORGAN TOXICITY - SINGLE STOT SE 3

**EXPOSURE - Category 3** 

#### **History**

Date of issue/ Date of

revision

: 2 September 2023

Date of previous issue : 29 October 2021

Prepared by : EHS **Version** : 26

**Disclaimer** 

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# **SECTION 16: Other information**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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