Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

Date of issue/Date of revision

: 21 June 2023

Version : 1.02



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

1.1 Product identifier	
Product name	: SIGMASHIELD 220/420/460/880/880GF CURE
Product code	: 00435908
Product description	:
Product type	: Liquid.
Other means of identification	: Not available.
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Industrial applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person

: Product.Stewardship.EMEA@ppg.com

responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK 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 UK CLP Regulation SI 2019/720 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 Hazard pictograms : View of the second second

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SECTION 2: Hazards identification

Hazard statements	:	 Fammable liquid and vapour. 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. IF exposed or concerned: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. 2 80, P210, P273, P391, P308 + P313, 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	:	Restricted to professional users.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

	Mixture			
3.2 Mixtures :				
Product/ingredient name	Identifiers	%	Classification	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 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	[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	[1]
benzyl alcohol	REACH #:	≥5.0 - ≤11	Acute Tox. 4, H302	[1]
English (GB)	United I	Kingdom (UK)		2/1

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	01-2119492630-38 EC: 202-859-9 CAS: 100-51-6		Acute Tox. 4, H332 Eye Irrit. 2, H319	
2-methylpropan-1-ol	Index: 603-057-00-5 REACH #: 01-2119484609-23 EC: 201-148-0	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318	[1] [2]
bisphenol A	CAS: 78-83-1 Index: 603-108-00-1 REACH #: 01-2119457856-23	≥1.0 - ≤5.0	STOT SE 3, H335 STOT SE 3, H336 Eye Dam. 1, H318 Skin Sens. 1, H317	[1] [2] [3]
	EC: 201-245-8 CAS: 80-05-7 Index: 604-030-00-0		Repr. 1B, H360F STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=10)	
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	[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	[1] [2]
2,4,6-tris(dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≥0.30 - ≤2.5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	[1]
			See Section 16 for the full text of the H statements declared above.	

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. <u>Type</u>

[1] 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.

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SECTION 4: First aid measures

4.1 Description of first aid n	neasures
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	1	May cause respiratory irritation.
Skin contact	1	Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
<u>Over-exposure signs/sympt</u>	on	n <u>s</u>
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
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 immedia	ate	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.

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SECTION 5: Firefigh	ting 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 j	et.	
5.2 Special hazards arising	rom the substance or	r mixture	
Hazards from the substance or mixture	In a fire or if heate the risk of a subse long lasting effects	and vapour. Runoff to sewer may cre d, a pressure increase will occur and quent explosion. This material is ver s. Fire water contaminated with this n n being discharged to any waterway,	the container may burst, with y toxic to aquatic life with naterial must be contained

	nitrogen oxides
5.3 Advice for firefighters	
Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident if

carbon oxides

for fire-fighters	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.

: Decomposition products may include the following materials:

SECTION 6: Accidental release measures

Hazardous combustion

products

6.1 Personal precautions,	protective equipment and emergency procedures
For non-emergency	: No action shall be taken involving any personal risk or with
nersonnel	Evacuate surrounding areas Keep unnecessary and upp

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	: Kvoid 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for

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SECTION 6: Accidental release measures

emergency contact information and Section 13 for waste disposal.

6.4 Reference to other : See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. sections 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.
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

Do not store above the following temperature: 50°C (122°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 wellventilated 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

8.1 Control parameters

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).

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
₩ylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-methylpropan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 231 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
bisphenol A	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 2 mg/m ³ 8 hours.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices	
xylene	XYLENES	
Recommended monitoring procedures Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.		

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
x ylene	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	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	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	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/m³	Workers	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
5	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

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	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/m ³	General population	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	110 mg/m ³	Workers	Systemic
2-methylpropan-1-ol	DNEL	Long term Inhalation	55 mg/m ³	General population	Local
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local
bisphenol A	DNEL	Long term Inhalation	2 mg/m ³	Workers	Systemic
bioprioriority	DNEL	Short term Inhalation	2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	2 mg/m ³	Workers	Local
	DNEL	Long term Dermal	0.031 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	0.031 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1 mg/m^3	General population	Local
	DNEL	Short term Inhalation	1 mg/m ³	General population	Local
	DNEL	Long term Dermal	0.002 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.002 mg/kg bw/day	General population	•
	DNEL	Long term Oral	0.002 mg/kg bw/day 0.004 mg/kg bw/day	General population	Systemic Systemic
	DNEL	Short term Oral	0.004 mg/kg bw/day 0.004 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.004 mg/kg bw/day	General population	Systemic
	DNEL		0.0019 mg/kg bw/day		
	DNEL	Long term Dermal		General population	Systemic
		Short term Oral	0.004 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.004 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.031 mg/kg bw/day	Workers	Systemic
		Long term Dermal	0.031 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	1 mg/m ³	General population	Local
	DNEL	Long term Inhalation	1 mg/m ³	General population	Local
	DNEL	Short term Inhalation	1 mg/m^3	General population	Systemic
	DNEL	Short term Inhalation	2 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	2 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	1 mg/m ³	General population	Systemic
m-phenylenebis(methylamine)	DNEL	Long term Inhalation	0.2 mg/m ³	Workers	Local
	DNEL	Long term Dermal	0.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m ³	Workers	Systemic
ethylbenzene	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/m ³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 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
					0
	DNEL	Long term Inhalation	0.53 mg/m³	Workers	Systemic
			0.53 mg/m³ 0.6 mg/kg bw/day	Workers Workers	Systemic

PNECs

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	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
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 measur	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 <u>Skin protection</u>	:	Chemical splash goggles and face shield.
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. nitrile neoprene

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SECTION 8: Exposure controls/personal protection

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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.
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.

0.1 Information on basic physic	al and	d chem	lical prope	rties		
<u>Appearance</u>						
Physical state	: L	.iquid.				
Colour	: \	/arious				
Odour	: 0	: Characteristic.				
Odour threshold	: N	Not available.				
Melting point/freezing point	d	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 -52.54°C (-62.6°F)				
Initial boiling point and boiling range	: >	•37.78°	C (>100°F)			
Flammability (solid, gas)	: li	quid				
Upper/lower flammability or explosive limits	: 0	Greates	t known rar	nge: Lower: 1.3%	Upper: 13% (benzyl alcohol)	
Flash point	: 0	Closed	cup: 33.33°	C (92°F)		
Auto-ignition temperature	1					
Ingredient name			°C	°F	Method	
Pr opylidynetrimethanol, propoxylated, products with ammonia	reaction	า	320	608	EU A.15	
Decomposition temperature	:					
рН	: N	lot app	licable.			
	Ν	lot app	licable. insc	oluble in water.		
Viscosity	: K	(inema	tic (40°C): >	⊳21 mm²/s		
Solubility(ies)	1					
Media		Resu	lt			
cold water		Not so	luble			
Solubility in water	: 1	1.5 g/l				
Miscible with water	: N	lo.				
Partition coefficient: n-octano	1/ : N	lot app	licable.			

9.1 Information on basic physical and chemical properties

English (GB)

water

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SECTION 9: Physical and chemic	cal properties	

-	
Vapour pressure	: 0.71 kPa (5.3 mm Hg)
Evaporation rate	: 0.5 (butyl acetate = 1)
Relative density	: 1
Vapour density	: Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.53 (Air = 1)
Explosive properties	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.
Oxidising properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredie	nts.
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 properties of the protective measures listed in sections 7 and 8.	roducts.
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 toxicological effects

Acute toxicity

mistsRabbit2000 mg/kg2-methylpropan-1-olLC50 Inhalation VapourRat1.23 g/kg2-methylpropan-1-olLC50 Inhalation VapourRat24.6 mg/lLD50 DermalRabbit2460 mg/kgLD50 OralRat2830 mg/kgLD50 OralRat3600 mg/kgLD50 OralRat3.25 g/kgm-phenylenebisLC50 Inhalation Gas.Rat(methylamine)LD50 DermalRat - Male, FemaleLD50 OralRat930 mg/kgethylbenzeneLC50 Inhalation Vapour LD50 DermalRat17.8 mg/l LD50 DermalRat17.8 mg/lRabbit17.8 g/kg17.8 g/kg	ose Exposure	Dose	Species	Result	Product/ingredient name
LD50 OralRat4.3 g/kgPropylidynetrimethanol, propoxylated, reaction products with ammoniaLD50 DermalRabbit0.4 g/kgbenzyl alcoholLD50 OralRat0.22 g/kgLD50 DermalRat2000 mg/kgLD50 DermalRat1.23 g/kgLD50 OralRat1.23 g/kgLD50 OralRat1.23 g/kgLD50 DermalRat24.6 mg/lLD50 DermalRat24.6 mg/lLD50 DermalRat24.6 mg/lLD50 DermalRat2460 mg/kgLD50 DermalRat2830 mg/kgLD50 OralRat3600 mg/kgLD50 DermalRat3.25 g/kgm-phenylenebisLC50 Inhalation Gas.Rat(methylamine)LD50 OralRatLD50 OralRat930 mg/kgethylbenzeneLC50 Inhalation Vapour LD50 DermalRatLD50 DermalRat930 mg/kgLD50 DermalRat17.8 mg/lRat17.8 g/kg	-	1.7 g/kg	Rabbit	LD50 Dermal	xylene
Propylidynetrimethanol, propoxylated, reaction products with ammoniaLD50 DermalRabbit0.4 g/kgbenzyl alcoholLD50 Oral LC50 Inhalation Dusts and mists LD50 DermalRat0.22 g/kg2-methylpropan-1-olLC50 Inhalation Dusts and mists LD50 OralRat2000 mg/kg2-methylpropan-1-olLC50 Inhalation Vapour LD50 Dermal LD50 Dermal LD50 DermalRat2460 mg/kgbisphenol ALD50 Dermal LD50 Dermal LD50 Dermal LD50 DermalRat2830 mg/kgm-phenylenebis (methylamine)LD50 Dermal LD50 DermalRat3.25 g/kgLD50 Dermal LD50 DermalRat - Male, Female>3100 mg/kgethylbenzeneLD50 Oral LC50 Inhalation Vapour LD50 DermalRat930 mg/kgID50 Dermal LD50 DermalRat17.8 mg/lRat17.8 g/kg17.8 g/kg			Rat	LD50 Oral	
LD50 Oral LD50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Oral C50 Inhalation Vapour LD50 Oral LC50 Inhalation Vapour LD50 Dermal LD50 Oral Rat Rat 2000 mg/kg Rat 2000 mg/kg Rat 24.6 mg/l LD50 Dermal LD50 Oral Rat 2830 mg/kg LD50 Oral Rat 2830 mg/kg LD50 Oral Rat 255 g/kg Rat 255 g/kg Rat 255 Inhalation Gas. Rat 2000 mg/kg Rat 260 mg/kg 250 Inhalation Vapour LD50 Dermal Rat 260 mg/kg 260 mg/kg			Rabbit	LD50 Dermal	propoxylated, reaction
benzyl alcoholLC50 Inhalation Dusts and mistsRat>4178 mg/m2-methylpropan-1-olLD50 Dermal LC50 Inhalation Vapour LD50 Dermal LD50 Dermal LD50 Dermal LD50 OralRat2000 mg/kg2-methylpropan-1-olLC50 Inhalation Vapour LD50 Dermal LD50 Dermal LD50 OralRat24.6 mg/lbisphenol A (methylamine)LD50 Dermal LD50 Dermal LD50 OralRat2830 mg/kgbisphenol A (methylamine)LD50 Dermal LD50 Dermal LD50 Dermal LD50 DermalRat3.25 g/kgethylbenzeneLD50 Oral LD50 Oral LD50 DermalRat - Male, Female Rat>3100 mg/kgtd>LD50 Oral LD50 Dermal LD50 DermalRat930 mg/kgtd>LD50 Oral LD50 DermalRat17.8 mg/ltd>LD50 Dermal LD50 DermalRat17.8 mg/ltd>td>LD50 Dermal LD50 DermalRat17.8 mg/ltd>td>td>td>td>tdot Vapour LD50 DermalRat17.8 g/kg	kg -	0.22 g/kg	Rat	LD50 Oral	
2-methylpropan-1-olLD50 OralRat1.23 g/kg2-methylpropan-1-olLC50 Inhalation VapourRat24.6 mg/lLD50 DermalRabbit2460 mg/kgLD50 OralRat2830 mg/kgLD50 OralRat3600 mg/kgLD50 OralRat3.25 g/kgm-phenylenebisLC50 Inhalation Gas.Rat(methylamine)LD50 DermalRat - Male, Female>3100 mg/kgethylbenzeneLC50 Inhalation VapourRat930 mg/kgLD50 DermalRat17.8 mg/l17.8 g/kg		>4178 mg/m ³	Rat		benzyl alcohol
2-methylpropan-1-olLD50 OralRat1.23 g/kg2-methylpropan-1-olLC50 Inhalation VapourRat24.6 mg/lLD50 DermalRabbit2460 mg/kgLD50 OralRat2830 mg/kgLD50 DermalRat3600 mg/kgLD50 OralRat3.25 g/kgm-phenylenebisLC50 Inhalation Gas.Rat(methylamine)LD50 DermalRat - Male,LD50 OralRat930 mg/kgLD50 OralRat930 mg/kgLD50 DermalRat17.8 mg/lLD50 DermalRat17.8 g/kg	g/kg -	2000 mg/kg	Rabbit	LD50 Dermal	
2-methylpropan-1-olLC50 Inhalation Vapour LD50 Dermal LD50 OralRat24.6 mg/l 2460 mg/kg 2460 mg/kg Ratbisphenol ALD50 Dermal LD50 Dermal LD50 OralRat2830 mg/kg 3600 mg/kg Ratm-phenylenebis (methylamine)LC50 Inhalation Gas.Rat3.25 g/kg 700 ppmthylbenzeneLD50 Oral LC50 Inhalation Vapour LD50 OralRat - Male, Female>3100 mg/kg 930 mg/kg 17.8 mg/l 17.8 g/kg			Rat	LD50 Oral	
LD50 OralRat2830 mg/kgbisphenol ALD50 DermalRabbit3600 mg/kgm-phenylenebisLD50 OralRat3.25 g/kg(methylamine)LD50 DermalRat700 ppmLD50 DermalRat - Male,>3100 mg/kgEthylbenzeneLD50 OralRat930 mg/kgLD50 DermalRat17.8 mg/lLD50 DermalRat17.8 g/kg			Rat	LC50 Inhalation Vapour	2-methylpropan-1-ol
bisphenol A LD50 Dermal Rabbit 3600 mg/kg LD50 Oral Rat 3.25 g/kg Rat 3.25 g/kg Rat 700 ppm (methylamine) LD50 Dermal Rat - Male, Female LD50 Oral Rat 930 mg/kg LC50 Inhalation Vapour Rat 17.8 mg/l LD50 Dermal Rat 17.8 g/kg	g/kg -	2460 mg/kg	Rabbit		
LD50 Oral m-phenylenebis (methylamine)LD50 Oral LC50 Inhalation Gas.Rat3.25 g/kgLD50 Dermal ethylbenzeneLD50 Dermal LD50 Oral LC50 Inhalation Vapour LD50 DermalRat - Male, Female Rat>3100 mg/kgethylbenzeneLD50 Oral LC50 Inhalation Vapour LD50 DermalRat930 mg/kg17.8 mg/l LD50 DermalRat17.8 g/kg		2830 mg/kg	Rat	LD50 Oral	
m-phenylenebis (methylamine) LC50 Inhalation Gas. Rat 700 ppm LD50 Dermal Rat - Male, >3100 mg/k Female 200 mg/kg LD50 Oral Rat 930 mg/kg LC50 Inhalation Vapour Rat 17.8 mg/l LD50 Dermal Rabbit 17.8 g/kg	g/kg -	3600 mg/kg	Rabbit	LD50 Dermal	bisphenol A
m-phenylenebis (methylamine) LC50 Inhalation Gas. Rat 700 ppm LD50 Dermal Rat - Male, >3100 mg/k Female 230 mg/kg LD50 Oral Rat 930 mg/kg LC50 Inhalation Vapour Rat 17.8 mg/l LD50 Dermal Rabbit 17.8 g/kg	kg -	3.25 g/kg	Rat	LD50 Oral	
LD50 DermalRat - Male, Female>3100 mg/k ParaleLD50 OralRat930 mg/kgLD50 OralRat17.8 mg/lLD50 DermalRabbit17.8 g/kg			Rat	LC50 Inhalation Gas.	
ethylbenzene LC50 Inhalation Vapour Rat 17.8 mg/l LD50 Dermal Rabbit 17.8 g/kg	ng/kg -	>3100 mg/kg		LD50 Dermal	、 <u>-</u> ,
ethylbenzeneLC50 Inhalation VapourRat17.8 mg/lLD50 DermalRabbit17.8 g/kg	/kg -	930 mg/kg	Rat	LD50 Oral	
LD50 Dermal Rabbit 17.8 g/kg			Rat	LC50 Inhalation Vapour	ethylbenzene
			Rabbit		-
LD50 Oral Rat 3.5 g/kg		3.5 g/kg	Rat	LD50 Oral	

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SECTION 11: Toxicological information

(dimethylaminomethyl)	LD50 Dermal	Rabbit	1.28 g/kg	-
	LD50 Dermal LD50 Oral		1280 mg/kg 1200 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMASHIELD 220/420/460/880/880GF CURE	2127.9	3603.1	108958.8	51.6	14.4
xylene	4300	1700	N/A	11	N/A
Propylidynetrimethanol, propoxylated, reaction products with ammonia	500	1100	N/A	N/A	N/A
benzyl alcohol	1230	N/A	N/A	N/A	1.5
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
bisphenol A	3250	3600	N/A	N/A	N/A
m-phenylenebis(methylamine)	930	N/A	4500	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
m-phenylenebis(methylamine) 2,4,6-tris (dimethylaminomethyl)phenol	Skin - Severe irritant Skin - Visible necrosis	Rat Rabbit	-	mg 4 hours 4 hours	4 hours 7 days
Conclusion/Summary	Not available.			·	
Skin	There are no data available o	n the mixture it	self.		

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	I	I				
Skin	There are no dat	ta available on the mixture itself.				
Respiratory	There are no dat	a available on the mixture itself.				
<u>Mutagenicity</u>						
Conclusion/Summary	There are no dat	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 dat	ta available on the mixture itself.				
Teratogenicity						
Conclusion/Summary	:					
	There are no dat	a available on the mixture itself.				
<u>Specific target organ toxicity (single exposure)</u>						

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

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye damage.
Inhalation	4	May cause respiratory irritation.
Skin contact	1	Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	cal, chemical and toxicological characteristics
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
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

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

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	•
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
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 av	vailable.
----------------------------	-----------

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-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/I Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4.6 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 0.000174 mg/l 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

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10	days	-	-
Conclusion/Summary	: Not available.	•			
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
xylene benzyl alcohol bisphenol A ethylbenzene	- - - -		- - -		Readily Readily Readily Readily

12.3 Bioaccumulative potential

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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	
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	: 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 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	 Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Waste catalogue

Waste code	Waste designation
08 01 99	wastes not otherwise specified
ackaging 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		Waste catalogue
Container	15 01 06	mixed packaging

Code	
COUE	

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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	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	111	Ш	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(Polyoxy propylene diamine, bisphenol A)	Not applicable.

Additional information

ADR/RID	:
Tunnel code	: (D/E)
ADN	: provision provision of the stance is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG	: $\mathbf{\overline{p}}$ he marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: Phe environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for	: Transport within user's premises: always transport in closed containers that are
user	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	: Not available.
according to IMO	
instruments	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern

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SECTION 15: Regulatory information

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction Substance of equivalent concern for human health	4,4'-isopropylidenediphenol 4,4'-isopropylidenediphenol	Candidate Candidate		1/12/2017 1/12/2017
Substance of equivalent concern for environment	4,4'-isopropylidenediphenol	Candidate	-	1/12/2017

Ozone depleting substances

Not listed.

Annex XVII - Restrictions : Restricted to professional users. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

₽5c E1

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Mam. 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

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

Cute 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 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	: 21 June 2023
Date of previous issue	: 13 February 2023
Prepared by	: EHS
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<u>Disclaimer</u>

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