SAFETY DATA SHEET

pPG

Version

: 1

Europe

Date of issue/Date of revision : 17 May 2024

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

Product name	: SIGMASHIELD 880 GF BASE YELLOWGREEN
Product code	: 00470746
Other means of identific	cation

Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against				
Product use	: Professional applications, Used by spraying.			
Use of the substance/ mixture	: Coating.			
Uses advised against	: Product is not intended, labelled or packaged for consumer use.			

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 3, H412 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

English (GB)

Europe

1/18

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Code : 00470746	Date of issue/Date of revision	: 17 May 2024	
SIGMASHIELD 880 GF BASE YELLOWGREEN			

SECTION 2: Hazards identification

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

1

2.2 Label elements Hazard pictograms

Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Do not handle until all safety precautions have been read and understood. 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	:	IF exposed or concerned: Get medical advice or attention.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	P202, P280, P210, P273, P308 + P313, P501 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) Epoxy Resin (700 <mw<=1100) Phenol, methylstyrenated 2,3-epoxypropyl neodecanoate 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene</mw<=1100)
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<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	:	This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

English (GB)	Europe	2/18

SECTION 2: Hazards identification

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
A-(epichlorhydrin); epoxy	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤22	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - <3.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
neodecanoate	REACH #: 01-2119431597-33 EC: 247-979-2 CAS: 26761-45-5	≥0.10 - ≤2.1	Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	-	[1]
	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]
octadecamide-N- methylene]-benzene	REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1] [2]
English (GB)	·		Europe	<u>, </u>	3/18

Code	: 00470746	Date of issue/Date of revision	: 17 May 2024	
SIGMASHIE	ELD 880 GF BASE YELLOWGREEN			

SECTION 3: Composition/information on ingredients

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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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 : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids Eye contact apart for at least 10 minutes and seek immediate medical advice. 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 2 person warm and at rest. Do NOT induce vomiting. : No action shall be taken involving any personal risk or without suitable training. It may **Protection of first-aiders** 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 irritation.

Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. 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 or irritation

pain or irritation watering redness

Innalation	i no specific data.
Skin contact	: Adverse symptoms may include the following: irritation
	redness
	dryness
	cracking
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

English (GB)	Europe	4/18

Code : 00470746 SIGMASHIELD 880 GF BA	Date of issue/Date of revision : 17 May 2024 ASE YELLOWGREEN
SECTION 4: First a	aid measures
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: Firefig	ghting measures

5.1 Extinguishing media Suitable extinguishing : Use dry chemical, CO2, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media 5.2 Special hazards arising from the substance or mixture Hazards from the : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the substance or mixture risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. : Decomposition products may include the following materials: **Hazardous combustion** products carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides 5.3 Advice for firefighters **Special precautions for** : 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 fire-fighters training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. : Fire-fighters should wear appropriate protective equipment and self-contained breathing **Special protective** apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing equipment for fire-fighters for fire-fighters (including helmets, protective boots and gloves) conforming to European

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. Avoid breathing 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.

standard EN 469 will provide a basic level of protection for chemical incidents.

English (GB)	Europe	5/18
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Code<th::</th>::17 May 2024SIGMASHIELD 880 GF BASE YELLOWGREEN:::::

SECTION 6: Accidental release measures

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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Code: 00470746Date of issue/Date of revision: 17 May 2024

SIGMASHIELD 880 GF BASE YELLOWGREEN

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

EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed hrough skin. STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. TWA: 50 ppm 8 hours. EU OEL (Europe, 1/2022). Absorbed through skin.
STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
STEL: 100 ppm 15 minutes. TWA: 221 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
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TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ACGIH TLV (United States, 7/2023). TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
TWA: 152 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
TWA: 50 ppm 8 hours.
EU OEL (Europe, 1/2022), Absorbed through skin,
STEL: 884 mg/m ³ 15 minutes.
STEL: 200 ppm 15 minutes.
TWA: 442 mg/m ³ 8 hours.
TWA: 100 ppm 8 hours.
ACGIH TLV (United States).
TWA: 3 mg/m ³ , (Respirable fraction)
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Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL	Long term Inhalation	12.25 mg/m³	Workers	Systemic
, , , , , , , , , , , , , , , , , , ,	DNEL	Short term Inhalation	12.25 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	8.33 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	3.571 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Dermal	3.571 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	0.75 mg/kg bw/day	General population [Consumers]	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
English (GB)			Europe		7/18

Code : 00470746

SIGMASHIELD 880 GF BASE YELLOWGREEN

Date of issue/Date of revision

: 17 May 2024

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	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	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/m³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
Phenol, methylstyrenated	DNEL	Long term Oral	0.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.348 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1.41 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1.67 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.5 mg/kg bw/day	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
2,3-epoxypropyl	DNEL	Long term Dermal	2.5 mg/kg bw/day	General population	Systemic
neodecanoate		-			-
	DNEL	Long term Inhalation	4 mg/m³	General population	Systemic
	DNEL	Long term Dermal	4.2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	5.88 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	2.5 mg/kg bw/day	General population	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	I	l	-		

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	-	Fresh water	0.006 mg/l	Assessment Factors
ç ç ,	-	Marine water	0.001 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	0.996 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.1 mg/kg dwt	Equilibrium Partitioning
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-
2-methylpropan-1-ol	-	Fresh water	0.4 mg/l	Assessment Factors
	-	Marine water	0.04 mg/l	Assessment Factors
	-	Sewage Treatment Plant	10 mg/l	Assessment Factors
	-	Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	0.156 mg/kg dwt	-
	-	Soil	0.076 mg/kg dwt	Equilibrium Partitioning
ethylbenzene	-	Fresh water	0.1 mg/l	Assessment Factors
	-	Marine water	0.01 mg/l	Assessment Factors
	-		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
English (GB)		Europe		8/18

<mark>Code</mark> SIGMASHI	: 00470746 ELD 880 GF BASE	YELL	OWGREE		issue/Date	of revision	:17 Ma	y 2024
SECTIC	N 8: Exposur	e co	ontrols/	personal p	orotectio	on		
			-	Secondary F	Poisoning	20 mg/kg	-	
			l					
8.2 Expos	ure controls							
controls		c a V V	or other enginy recomm	pineering contro nended or statu ust concentratio	ols to keep v itory limits.	vorker exposure The engineering	to airborne c controls also	exhaust ventilation ontaminants below o need to keep gas, e explosion-proof
<u>Individua</u>	al protection measu	ures						
Hygien	e measures	e / (eating, smo Appropriate Contaminat contaminate	king and using techniques sho ed work clothin	the lavatory ould be use g should no ore reusing.	v and at the end of d to remove pote t be allowed out Ensure that eye	of the working entially contar of the workpl	ninated clothing. ace. Wash
Eye/fac	e protection	: (Chemical sp	olash goggles.	Use eye pr	otection accordir	ng to EN 166.	
<u>Skin pr</u>	<u>otection</u>							
	protection	v is c r g g F f (V V V V T T z a	vorn at all ti s necessar luring use t loted that th love manu protection ti requently re breakthrou Vhen only h breakthrou The user m product is th is included	imes when han y. Considering hat the gloves he time to brea facturers. In the me of the glove epeated contact gh time greater brief contact is gh time greater ust check that the most approp in the user's ris	dling chemi the parame are still reta kthrough for le case of m es cannot be t may occur than 480 n expected, a than 30 mi the final cho vriate and ta	cal products if a sters specified by ining their protect any glove mate nixtures, consisting accurately estir , a glove with a pro- nutes according glove with a pro- nutes according ice of type of glo kes into account	risk assessm / the glove ma trive propertie rial may be d ng of several mated. Wher protection cla g to EN 374) to EN 374) is ove selected f	ifferent for different substances, the prolonged or ss of 6 is recommended. of 2 or higher recommended.
Glove			outyl rubber					
Body	protection	k f s	eing perfor andling this tatic protect hould inclu	rmed and the ri s product. Who ctive clothing. F ide anti-static o	sks involved en there is a For the grea veralls, boo	a risk of ignition f test protection fr	approved by a from static elector from static disc Refer to Europ	a specialist before ectricity, wear anti- charges, clothing bean Standard EN
Other	skin protection	b	ased on th		erformed an	d the risks involv		hould be selected ld be approved by
Respira	itory protection	h v a c V	azards of t vorkers are oppropriate complying v	the product and exposed to co , certified respine vith an approve poirator conform	l the safe we ncentrations ators. Use d standard		he selected re osure limit, the air-purifying nent indicates	spirator. If ey must use or air-fed respirator this is necessary.
Enviror control	nmental exposure s	t c	hey comply ases, fume	with the requir scrubbers, filt	ements of e ers or engin	environmental pro	otection legis ions to the pr	ecked to ensure lation. In some ocess equipment

English (GB) Europe 9/18

Code	: 00470746	Date of issue/Date of revision	: 17 May 2024	
SIGMASHIELD 880 GF BASE YELLOWGREEN				

SECTION 9: Physical and chemical properties

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

Appearance									
Physical state	:	Liquid.							
Colour	:	Not available.							
Odour		Characteristic.							
Odour threshold		Not available.							
Melting point/freezing point	:	May start to solidify data for the following -72.62°C (-98.7°F)							
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	-	Greatest known ran	ge: Lower	: 1.7%	Upper:	10.9%	(2-meth	iylpropan-´	1-ol)
Flash point	1	Closed cup: 29°C							
Auto-ignition temperature	:								
		Ingredient name		°C		°F		Method	
		2-[(2-methoxy-4-nitrophe (2-methoxyphenyl)-3-oxo		180		356		VDI 2263	
Decomposition temperature	1	Stable under recom	mended s	torage	and han	dling co	ondition	s (see Sec	ction 7).
рН	1	Not applicable.							
Viscosity	1	Kinematic (40°C): >	21 mm²/s						
Solubility(ies)	1								
Solubility(ies) Media	:	Result							
	:	Result Not soluble							
Media cold water Partition coefficient: n-octanol/	:	Not soluble							
Media cold water Partition coefficient: n-octanol/ water	:	Not soluble							
Media cold water Partition coefficient: n-octanol/ water	:	Not soluble	Vapou	ır Pres	ssure at	20°C	Va	oour press	sure at 50°C
Media cold water Partition coefficient: n-octanol/ water	:	Not soluble	Vapou mm Hg	1	sure at		Va mm Hg	oour press	sure at 50°(Method
Media cold water Partition coefficient: n-octanol/ water	:	Not soluble Not applicable.		kPa		h <mark>od</mark> N	mm		sure at 50°0 Method
Media cold water Partition coefficient: n-octanol/ water Vapour pressure	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate		kPa <1.6	DIN E	hod N 5-2	mm Hg	kPa	Method
Media cold water Partition coefficient: n-octanol/water Vapour pressure	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value		kPa <1.6	DIN E	hod N 5-2	mm Hg	kPa	Method
Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate	mm Hg <12.00102 e: 0.84 (et	kPa <1.6 hylben	DIN E 13016 zene) W	nod N 5-2 /eightee	mm Hg d avera	kPa ge: 0.75co	Method mpared with
Media cold water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.39	mm Hg <12.00102 e: 0.84 (et e: 3.7 (Air not explos	kPa <1.6 hylben = 1) (sive, bu	Metil DIN E 13016 zene) W	hod N 5-2 /eightee Weigh	mm Hg d avera	kPa ge: 0.75co erage: 3.42	Method mpared with
Media cold water Partition coefficient: n-octanol/water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.39 Highest known value The product itself is	mm Hg <12.00102 e: 0.84 (et e: 3.7 (Air not explos air is poss	kPa <1.6 hylben = 1) (sive, bu ible.	Meth DIN E 13016 zene) Xylene). ut the for	nod N Jeighter Weigh mation	mm Hg d avera	kPa ge: 0.75co erage: 3.42	Method mpared with (Air = 1)
Media cold water Partition coefficient: n-octanol/water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.39 Highest known value The product itself is vapour or dust with	mm Hg <12.00102 e: 0.84 (et e: 3.7 (Air not explos air is poss	kPa <1.6 hylben = 1) (sive, bu ible.	Meth DIN E 13016 zene) Xylene). ut the for	nod N Jeighter Weigh mation	mm Hg d avera	kPa ge: 0.75co erage: 3.42	Method mpared with (Air = 1)
Media cold water Partition coefficient: n-octanol/water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties Particle characteristics	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.39 Highest known value The product itself is vapour or dust with	mm Hg <12.00102 e: 0.84 (et e: 3.7 (Air not explos air is poss	kPa <1.6 hylben = 1) (sive, bu ible.	Meth DIN E 13016 zene) Xylene). ut the for	nod N Jeighter Weigh mation	mm Hg d avera	kPa ge: 0.75co erage: 3.42	Method mpared wit
	:	Not soluble Not applicable. Ingredient name 2-methylpropan-1-ol Highest known value butyl acetate 1.39 Highest known value The product itself is vapour or dust with Product does not product does not product does	mm Hg <12.00102 e: 0.84 (et e: 3.7 (Air not explos air is poss	kPa <1.6 hylben = 1) (sive, bu ible.	Meth DIN E 13016 zene) Xylene). ut the for	nod N Jeighter Weigh mation	mm Hg d avera	kPa ge: 0.75co erage: 3.42	Method mpared with

2020/878	
Code : 00470746 SIGMASHIELD 880 GF BASE	Date of issue/Date of revision : 17 May 2024 YELLOWGREEN
SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides halogenated compounds metal oxide/ oxides

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin (number				
average molecular weight ≤ 700)				
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/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	-
1,3-bis[12-hydroxy-octadecamide-N-	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
methylene]-benzene	mists			

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

Acute toxicity estimates

Route	ATE value
Dermal	26726.58 mg/kg
Inhalation (vapours)	155.67 mg/l

Irritation/Corrosion

English (GB)	Europe	11/18
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Code : 00470746

Date of issue/Date of revision SIGMASHIELD 880 GF BASE YELLOWGREEN

: 17 May 2024

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Eyes - Mild irritant	Rabbit	-	100 mg	-
ç ç ,	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Skin 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
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	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.
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
xylene 2-methylpropan-1-ol	Category 3 Category 3 Category 3	-	Respiratory tract irritation Respiratory tract irritation Narcotic effects

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
	ASPIRATION HAZARD - Calegory I

Information on likely routes of exposure

: Not available.

English (GB)	Europe	12/18
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Conforms to Regulation (EC) No. 1907/2006 (REACH)	, Annex II, as amended by Commission Regulation (EU)
2020/878	

Code	: 00470746	Date of issue/Date of revision	: 17 May 2024	
SIGMASHIELD 880 GF BASE YELLOWGREEN				

SECTION 11: Toxicological information

	•
Potential acute health effect	<u>s</u>
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	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	: Suspected of causing genetic defects.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Not available.

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

Code : 00470746

Date of issue/Date of revision

: 17 May 2024

SECTION 12: Ecological information

SIGMASHIELD 880 GF BASE YELLOWGREEN

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
1,3-bis[12-hydroxy-octadecamide-N-methylene]- benzene	Acute LC50 >100 mg/l	Fish	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) ethylbenzene	OECD 301F	5 % - 28 days 79 % - Readily - 10 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	-	-	Not readily
xylene 2,3-epoxypropyl neodecanoate ethylbenzene	- - -		Readily Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.64 to 3.78	31	Low
xylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated 2-methylpropan-1-ol	3.627	-	Low
2,3-epoxypropyl neodecanoate ethylbenzene	4.4 3.6	- 79.43	High Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

<mark>Code</mark> SIGMASHIE	: 00470746 LD 880 GF BASE YELLOWGREEN	Date of issue/Date of revision	: 17 May 2024
SECTION	12: Ecological information	1	

Mobility

: Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	No	N/A	No	No	No	N/A	No
xylene	No	N/A	No	No	No	N/A	No
Époxy Resin (700 <mw <=1100)</mw 	No	N/A	N/A	No	N/A	N/A	N/A
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
2-methylpropan-1-ol	No	N/A	N/A	No	Ň/A	N/A	N/A
2,3-epoxypropyl neodecanoate	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No
1,3-bis[12-hydroxy- octadecamide-N-methylene]- benzene	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

=	
3.1 Waste treatment met	hods
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	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalog	gue (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	
English (GB)		Europe	15/18

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

Code : 00470746

Date of issue/Date of revision

: 17 May 2024

SIGMASHIELD 880 GF BASE YELLOWGREEN

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.

14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	Ш	=	III
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

 ADR/RID
 : None identified.

 Tunnel code
 : (D/E)

 ADN
 : The product is only regulated as an environmentally hazardous substance when transported in tank vessels.

 IMDG
 : None identified.

IATA : None identified.

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

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

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

English (GB)

Code	: 00470746	Date of issue/Date of revision	: 17 May 2024
SIGMASHIELD 880 GF BASE YELLOWGREEN			

SECTION 15: Regulatory information

	Intrinsic property	Ingredient name		Reference number	Date of revision
		Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol		D(2023) 8585-DC	1/23/2024
Annex XVII - Restrictions : Not applicable.					

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

<u>Danger criteria</u>	
Category	
P5c	

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

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

IATA = International Air Transport Association

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.

2020/878	
Code : 00470746 SIGMASHIELD 880 GF BASE YELLOWGREEN	Date of issue/Date of revision : 17 May 2024
SECTION 16: Other information	
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
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
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -
	Category 2
STOT SE 3	SPEČIFÍC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

<u>History</u>	
Date of issue/ Date of revision	: 17 May 2024
Date of previous issue	: No previous validation
Prepared by	: EHS
Version	: 1

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Category 3