# 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

: 14 October 2024

Version : 1.01



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

1.1 Product identifier		
Product name	:	SIGMA SAILADVANCE DX BROWN
Product code	:	00393268
Product type	:	Liquid.
Other means of identification	1	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	:	Antifouling products
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 Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 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

Signal word

Hazard pictograms



English (GB)

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SECTION 2: Hazards identification		

SECTION 2: Hazards	IC	ientification
Hazard statements	:	Highly flammable liquid and vapour. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P305 + P351 + P338, P501
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	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**

	3.2 Mixtures : N	lixture			
01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-XAcute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 $(M=100)$ Aquatic Chronic 1, H410 (M=10)xyleneREACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 $\geq 10 - \leq 18$ Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H332 Stor SE 3, H335 Asp. Tox. 1, H304[1] [2]	Product/ingredient name	Identifiers	%	Classification	Туре
H412	dicopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X REACH #: 01-2119488216-32 EC: 215-535-7	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10) Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3,	[1] [2]

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SECTION 3: Compositi	on/information on i	ngredients		
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥5.0 - <10	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥1.0 - ≤5.0	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7	≥1.0 - ≤5.0	Skin Sens. 1, H317	[1] [2
bis(1-hydroxy-1H-pyridine- 2-thionato-O,S)copper	Index: 650-015-00-7 EC: 238-984-0 CAS: 14915-37-8	≥1.0 - ≤4.4	Acute Tox. 4, H302 Acute Tox. 2, H330 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1,	[1] [2
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≥1.0 - ≤5.0	H410 (M=100) Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)	[1]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≤1.2	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	[1] [2
4,5-dichloro-2-octyl-2H-isothiazol 3-one		<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071	[1]
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
octhilinone (ISO)	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	<0.0010	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1,	[1]
English (GB)	I I I 14	Kingdom (UK)	I	<u>ו</u>

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SECTION 3: Composition/information on ingredients			

H410 (M=100) EUH071	
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. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

#### SUB codes represent substances without registered CAS Numbers.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

English (GB)	United Kingdom (UK) 4/18
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Inhalation	: No specific data.
Eye contact	: Adverse symptoms may include the following: pain watering redness
Over-exposure signs/sympto	
Ingestion	: Harmful if swallowed.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Inhalation	: Harmful if inhaled.
Eye contact	: Causes serious eye damage.
Potential acute health effects	

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SECTION 4: First aid measures				
4.3 Indication of any immediate medical attention and special treatment needed				

Notes to physician	<ul> <li>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.</li> </ul>
Specific treatments	: No specific treatment.

# SECTION 5: Firefighting measures

-		-
5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	-	Do not use water jet.
5.2 Special hazards arising	fron	the substance or mixture
Hazards from the substance or mixture	:	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 6.3 Methods and material for containment and cleaning up

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SECTION 6: Ad	ccidental release	e measures	
Small spill	explosion- Alternative	f without risk. Move containers from spill are proof equipment. Dilute with water and mop ly, or if water-insoluble, absorb with an inert of e waste disposal container. Dispose of via a	up if water-soluble. dry material and place in an
Large spill	explosion- sewers, wa effluent tre combustib	f without risk. Move containers from spill are proof equipment. Approach the release from ater courses, basements or confined areas. <sup>1</sup> eatment plant or proceed as follows. Contain le, absorbent material e.g. sand, earth, vermi in container for disposal according to local re	upwind. Prevent entry into Wash spillages into an and collect spillage with non- iculite or diatomaceous earth

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

emergency contact information and Section 13 for waste disposal.

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

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

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and 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.

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### **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**

Product/ingredient name	Exposure limit values
dicopper oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020) [Copper and
	<b>compounds]</b> STEL 15 minutes: 2 mg/m³ (as Cu). Form: Dusts and Mists. TWA 8 hours: 1 mg/m³ (as Cu). Form: Dusts and Mists.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,p-
,	or mixed isomers] Absorbed through skin.
	STEL 15 minutes: 441 mg/m <sup>3</sup> .
	TWA 8 hours: 50 ppm.
	TWA 8 hours: 220 mg/m <sup>3</sup> .
	STEL 15 minutes: 100 ppm.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 552 mg/m <sup>3</sup> .
	STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.
	TWA 8 hours: 441 mg/m <sup>3</sup> .
rosin	EH40/2005 WELs (United Kingdom (UK), 1/2020) Inhalation
	sensitiser.
	STEL 15 minutes: 0.15 mg/m <sup>3</sup> . Form: Fume.
	TWA 8 hours: 0.05 mg/m <sup>3</sup> . Form: Fume.
bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper	EH40/2005 WELs (United Kingdom (UK), 1/2020) [Copper and
	compounds]
	STEL 15 minutes: 2 mg/m <sup>3</sup> (as Cu). Form: Dusts and Mists.
	TWA 8 hours: 1 mg/m <sup>3</sup> (as Cu). Form: Dusts and Mists.
tetraethyl silicate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	TWA 8 hours: 44 mg/m <sup>3</sup> .
	TWA 8 hours: 5 ppm.

# Biological exposure indices Product/ingredient name Exposure indices Kylene EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift. Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of

Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres -Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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/DMELs** 

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# **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
dícopper oxide	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m <sup>3</sup>	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 <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
, , , , , , , , , , , , , , , , , , ,	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	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 <sup>3</sup>	Workers	Local
copper(II) oxide	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.041 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.082 mg/kg bw/day	General population	Systemic
tetraethyl silicate	DNEL	Long term Dermal	1.8 mg/kg bw/day	General population	Systemic
, ,	DNEL	Short term Inhalation	5.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	5.3 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	5.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	5.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	6.3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	44 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	44 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	44 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	44 mg/m <sup>3</sup>	Workers	Systemic
copper	DNEL	Long term Dermal	137 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	273 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	273 mg/kg bw/day	Workers	Systemic
		Short torm Dormal	210 mg/kg bw/day		0,0001110

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
dicopper oxide	Fresh water	0.0078 mg/l	-
	Fresh water sediment	87.1 mg/kg dwt	-
	Marine water	0.0056 mg/l	-
	Marine water sediment	676 mg/kg dwt	-
	Soil	64.6 mg/kg dwt	-
	Sewage Treatment Plant	0.23 mg/l	-
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	-
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
English (GB)	United Kingdom (UK	()	8/1

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# SECTION 8: Exposure controls/personal protection

	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	-
zinc oxide	Fresh water	20.6 µg/l	Sensitivity Distribution
	Marine water	6.1 µg/l	Sensitivity Distribution
	Fresh water sediment	117 mg/kg dwt	Sensitivity Distribution
	Sewage Treatment Plant	52 µg/l	Assessment Factors
	Marine water sediment	56.5 mg/kg dwt	Assessment Factors
	Soil	35.6 mg/kg dwt	Sensitivity Distribution
rosin	Fresh water	0.002 mg/l	Assessment Factors
	Marine water	0 mg/l	Assessment Factors
	Sewage Treatment Plant	1000 mg/l	Assessment Factors
	Fresh water sediment	0.007 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.001 mg/kg dwt	Equilibrium Partitioning
	Soil	0 mg/kg dwt	Equilibrium Partitioning

#### 8.2 Exposure controls

0.2 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 measu	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <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. butyl rubber
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	:

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# SECTION 8: Exposure controls/personal 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 worker are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

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

### 9.1 Information on basic physical and chemical properties

Physical state	: Liq	uid				
Colour						
		own.				
Odour		aracteristic.				
Odour threshold		t available.				
Melting point/freezing point						
Initial boiling point and boiling range	: >37	7.78°C (>100	°F)			
Flammability (solid, gas)	: liqu	uid				
Upper/lower flammability or explosive limits	: No	t available.				
Flash point	: Clo	sed cup: 21°	C (69.8°F)			
Auto-ignition temperature	:					
Ingredient name		°C	°F	N	lethod	
xylene		432	809.6			
Viscosity Solubility(ies)	No : <b>⊉</b> yı Kin	namic (room	nsoluble in water. temperature): Not temperature): No ): >21 mm²/s			
	· ·					
Modia		Result				
Media	N	lot soluble				
cold water						
cold water	: No					
Cold water Miscible with water Partition coefficient: n-octai						
cold water Miscible with water Partition coefficient: n-octai water						
cold water Miscible with water Partition coefficient: n-octai water	nol/ : No		ure at 20°C	v	apour pres	ssure at 50°C
	nol/ : No	t applicable.	ure at 20°C Method	V mm Hg	apour pres	ssure at 50°C
Cold water Miscible with water Partition coefficient: n-octar water Vapour pressure	nol/ : No <sup>-</sup> : V	t applicable. <b>apour Press</b>	1			1
cold water         Miscible with water         Partition coefficient: n-octain         water         Vapour pressure         Ingredient name	nol/ : No : V mm Hg	t applicable. <b>apour Press</b> kPa 1.2	1			1

vapour or dust with air is possible.

Oxidising properties

English (GB)

United Kingdom (UK)

: Product does not present an oxidizing hazard.

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

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### **SECTION 9: Physical and chemical properties**

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 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 metal oxide/oxides

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
fcopper oxide	LC50 Inhalation Dusts and	Rat	3.34 mg/l	4 hours	
	mists				
	LD50 Dermal	Rat	>2000 mg/kg	-	
	LD50 Oral	Rat	500 mg/kg	-	
ylene	LD50 Dermal	Rabbit	1.7 g/kg	-	
	LD50 Oral	Rat	4.3 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	-	
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m <sup>3</sup>	4 hours	
	mists		_		
	LD50 Dermal	Rat	>2000 mg/kg	-	
	LD50 Oral	Rat	>5000 mg/kg	-	
osin	LD50 Dermal	Rat	>2000 mg/kg	-	
	LD50 Oral	Rat	7600 mg/kg	-	
bis(1-hydroxy-1H-pyridine-	LC50 Inhalation Dusts and	Rat	70 mg/m³	4 hours	
2-thionato-O,S)copper	mists		-		
	LD50 Oral	Rat	1075 mg/kg	-	
copper(II) oxide	LD50 Oral	Rat	>2000 mg/kg	-	
etraethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours	
	LD50 Dermal	Rabbit	5.878 g/kg	-	
	LD50 Oral	Rat	6270 mg/kg	-	
1,5-dichloro-2-octyl-2H-	LC50 Inhalation Dusts and	Rat	0.16 mg/l	4 hours	
sothiazol-3-one	mists		J.		
	LD50 Dermal	Rabbit	3.9 g/kg	-	
	LD50 Oral	Rat	567 mg/kg	-	
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours	
••	mists				
N,N'-ethane-1,2-diylbis	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours	
12-hydroxyoctadecan-	mists				
l-amide)					
English (GB) United Kingdom (UK) 1					

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	eelegiea menatori				
	LD50 Dermal	Rat	>2000 mg/kg	-	
	LD50 Oral	Rat	>2000 mg/kg	-	
octhilinone (ISO)	LC50 Inhalation Dusts and mists	Rat	0.27 mg/l	4 hours	
	LD50 Dermal	Rabbit	311 mg/kg	-	
	LD50 Oral	Rat	125 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)
GMA SAILADVANCE DX BROWN dicopper oxide xylene ethylbenzene rosin bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper tetraethyl silicate	1331.2 500 4300 3500 7600 1075 6270	10787.8 N/A 1700 17800 N/A N/A 5878 1100	N/A N/A N/A N/A N/A N/A N/A	49.9 N/A 11 17.8 N/A N/A 11 N/A	2.3 3.34 N/A N/A N/A 0.07 N/A
4,5-dichloro-2-octyl-2H-isothiazol-3-one octhilinone (ISO)	567 125	311	N/A N/A	N/A N/A	0.16 0.27

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	: Not available.				

oonclusion/ounnary	
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
octhilinone (ISO)	skin	Mouse	Sensitising
Conclusion/Summary		4	
Skin	: There are no da	ata available on the mixture itself	f.
Respiratory	: There are no da	ata available on the mixture itself	f.
<u>Mutagenicity</u>			
Conclusion/Summary	: There are no da	ata available on the mixture itself	f.
Carcinogenicity			
Conclusion/Summary	: There are no da	ata available on the mixture itself	f.
Reproductive toxicity			
Conclusion/Summary	: There are no da	ata available on the mixture itsel	f.
Teratogenicity			
Conclusion/Summary	: There are no da	ata available on the mixture itself	f.
Specific target organ toxicit	y (single exposure	<u>e)</u>	

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# SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
tetraethyl silicate	Category 3	-	Respiratory tract irritation
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

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

#### **Aspiration hazard**

Product/ingredient name	Result	
<mark>iv</mark> √lene	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	1	Harmful if inhaled.
Skin contact	1	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

#### Delayed and immediate effects 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.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	

English (GB)

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	0
Conclusion/Summary	: Not available.
General	<ul> <li>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.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

```
Other information
```

: Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dicopper oxide	LC50 0.003 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
4,5-dichloro-2-octyl-2H- isothiazol-3-one	Acute EC50 267.368 µg/l Marine water	Algae - Diatom - <i>Nitzschia</i>	96 hours
	Acute LC50 0.318 mg/l Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	Acute LC50 0.0027 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 19.789 µg/l Marine water	Algae - Diatom - <i>Nitzschia</i> pungens	96 hours
	Chronic NOEC 0.00056 mg/l Fresh water	Fish	97 days
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	21 days
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 94 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours

## Conclusion/Summary

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ethylbenzene N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)	-	79 % - Readily - 10 days 63 % - 28 days	-	-

#### **Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
kylene ethylbenzene N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide)		-	Readily Readily Readily

#### 12.3 Bioaccumulative potential

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### **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential	
<b>x</b> ylene	3.12	7.4 to 18.5	Low	
ethylbenzene	3.6	79.43	Low	
rosin	1.9 to 7.7	-	High	
tetraethyl silicate	3.18	-	Low	
N,N'-ethane-1,2-diylbis	>6	-	High	
(12-hydroxyoctadecan-				
1-amide)				
octhilinone (ISO)	2.45	-	Low	

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
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.<br/>Disposal of this product, solutions and any by-products should at all times comply<br/>with the requirements of environmental protection and waste disposal legislation<br/>and any regional local authority requirements. Dispose of surplus and non-<br/>recyclable products via a licensed waste disposal contractor. Waste should not be<br/>disposed of untreated to the sewer unless fully compliant with the requirements of<br/>all authorities with jurisdiction.

#### Hazardous waste

#### Waste catalogue

ſ	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		Waste catalogue
Container	15 01 06	mixed packaging
Special precautions	taken when Empty conta residues ma container. I thoroughly ir	al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product by create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned internally. Avoid dispersal of spilt material and runoff and contact with ays, drains and sewers.

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### SECTION 1/1: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN 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	11	11		11
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(dicopper oxide)	Not applicable.
Additional informa	<u>ition</u>			
ADR/RID :	The environmentally haz ≤5 kg.	zardous substance mark i	s not required when trans	oorted in sizes of ≤5 L o
Tunnel code :	(D/E)			
	The environmentally haz ≤5 kg.	zardous substance mark i	s not required when trans	oorted in sizes of ≤5 L o
ADN :	≤5 kg.		s not required when transpransported in sizes of ≤5 L	
ADN : IMDG :	≤5 kg. The marine pollutant ma	ark is not required when tr		or ≤5 kg.
ADN : IMDG :	≤5 kg. The marine pollutant ma The environmentally haz regulations. utions for : Transport upright an	ark is not required when tr zardous substance mark i : within user's premises	ansported in sizes of ≤5 L may appear if required by any appear if any appear if required by any appear if any appear if appear if any appear if any appear if appear if any appear if any appear if any appear if appear if any ap	or ≤5 kg. other transportation d containers that are

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

#### UK (GB)/REACH

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

#### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

#### **Explosive precursors** : Not applicable.

### **Ozone depleting substances**

English (GB)

Not listed.

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

Product/ingredient n	ame	Entry Number (REACH)
GMA SAILADVANC	E DX BROWN	3
Labelling	: Not applicable.	

**Seveso Directive** 

**United Kingdom (UK)** 

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### **SECTION 15: Regulatory information**

This product is controlled under the Seveso Directive.

#### Danger criteria

Category P5c

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
	PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

#### Full text of abbreviated H statements

<b>⊮</b> 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications

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Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 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
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
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	: 14 October 2024
Date of previous issue	: 7 November 2022
Prepared by	: EHS
Version	: 1.01

#### **Disclaimer**

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