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 REDBROWN

Product code : 00393266

Product type : Liquid.

Other means of : Not available.

identification

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 responsible for this SDS

: Product.Stewardship.EMEA@ppg.com

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

Hazard pictograms









Signal word : Danger

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SECTION 2: Hazards identification

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 requirements

Containers to be fitted

with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB 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 : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
₫ícopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥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)	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤18	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	[1] [2]

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SECTION 3: Composition/information on ingredients

ethylbenzene	REACH #:	≥5.0 - <10	Flam. Liq. 2, H225	[1] [2]
	01-2119489370-35		Acute Tox. 4, H332	[.][-]
	EC: 202-849-4		STOT RE 2, H373	
	CAS: 100-41-4		(hearing organs)	
	Index: 601-023-00-4		Asp. Tox. 1, H304	
			Aquatic Chronic 3, H412	
zinc oxide	REACH #:	≥1.0 - ≤5.0	Aquatic Acute 1, H400	[1]
	01-2119463881-32		(M=1)	
	EC: 215-222-5		Aquatic Chronic 1,	
	CAS: 1314-13-2 Index: 030-013-00-7		H410 (M=1)	
rosin	REACH #:	≥1.0 - ≤5.0	Skin Sens. 1, H317	[1] [2]
	01-2119480418-32	-1.0 -0.0	CKIII COIIC. 1, 11017	['] [-]
	EC: 232-475-7			
	CAS: 8050-09-7			
	Index: 650-015-00-7			
bis(1-hydroxy-1H-pyridine-	EC: 238-984-0	≥1.0 - ≤4.4	Acute Tox. 4, H302	[1] [2]
2-thionato-O,S)copper	CAS: 14915-37-8		Acute Tox. 2, H330	
			Eye Dam. 1, H318	
			Aquatic Acute 1, H400	
			(M=100)	
			Aquatic Chronic 1,	
copper(II) oxide	REACH #:	≥1.0 - ≤5.0	H410 (M=100)	[4]
copper(II) oxide	01-2119502447-44	21.0 - ≤5.0	Aquatic Acute 1, H400 (M=100)	[1]
	EC: 215-269-1		Aquatic Chronic 1,	
	CAS: 1317-38-0		H410 (M=10)	
	Index: 029-016-00-6		11116 (111-10)	
tetraethyl silicate	REACH #:	≤1.2	Flam. Liq. 3, H226	[1] [2]
	01-2119496195-28		Acute Tox. 4, H332	
	EC: 201-083-8		Eye Irrit. 2, H319	
	CAS: 78-10-4		STOT SE 3, H335	
	Index: 014-005-00-0			
4,5-dichloro-2-octyl-2H-isothiazol-	EC: 264-843-8	<1.0	Acute Tox. 4, H302	[1]
3-one	CAS: 64359-81-5		Acute Tox. 4, H312	
	Index: 613-335-00-8		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)	
			Àquatic Chronic 1,	
			H410 (M=100)	
			EUH071	
			l	
copper	REACH#:	<1.0	Aquatic Acute 1, H400	[1]
copper	01-2119480154-42	<1.0	(M=1)	[1]
copper	01-2119480154-42 EC: 231-159-6	<1.0	(M=1) Aquatic Chronic 3,	[1]
	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8		(M=1) Aquatic Chronic 3, H412	
N,N'-ethane-1,2-diylbis	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #:	<1.0 ≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317	[1]
	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26		(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3,	
N,N'-ethane-1,2-diylbis	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6		(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317	
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26		(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3,	[1]
N,N'-ethane-1,2-diylbis	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2	≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2 EC: 247-761-7	≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2 EC: 247-761-7 CAS: 26530-20-1	≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2 EC: 247-761-7 CAS: 26530-20-1	≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2 EC: 247-761-7 CAS: 26530-20-1	≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2 EC: 247-761-7 CAS: 26530-20-1	≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 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	[1]
N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide)	01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2 EC: 247-761-7 CAS: 26530-20-1	≤0.30	(M=1) Aquatic Chronic 3, H412 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	[1]

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.

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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

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

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

personnel.

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

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

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

person warm and at rest. Do NOT induce vomiting.

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

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

thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

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

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SECTION 4: First aid measures

4.3 Indication of any immediate medical attention and special treatment needed

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

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

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : 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, protective equipment and emergency procedures

For non-emergency personnel

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

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

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

Small spill

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

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

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

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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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
xylene	compounds] STEL 15 minutes: 2 mg/m³ (as Cu). Form: Dusts and Mists. TWA 8 hours: 1 mg/m³ (as Cu). Form: Dusts and Mists. EH40/2005 WELs (United Kingdom (UK), 1/2020) [xylene, o-,m-,p-
Aylone	or mixed isomers] Absorbed through skin.
	STEL 15 minutes: 441 mg/m³.
	TWA 8 hours: 50 ppm. TWA 8 hours: 220 mg/m³.
	STEL 15 minutes: 100 ppm.
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed
	through skin.
	STEL 15 minutes: 552 mg/m³.
	STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm.
	TWA 8 hours: 441 mg/m³.
rosin	EH40/2005 WELs (United Kingdom (UK), 1/2020) Inhalation
	sensitiser.
	STEL 15 minutes: 0.15 mg/m³. Form: Fume.
hig/1 hydrawy 1H pyriding 2 thionata O S)conner	TWA 8 hours: 0.05 mg/m³. 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/m³ (as Cu). Form: Dusts and Mists. TWA 8 hours: 1 mg/m³ (as Cu). Form: Dusts and Mists.
tetraethyl silicate	EH40/2005 WELs (United Kingdom (UK), 1/2020)
	TWA 8 hours: 44 mg/m³.
	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 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	Type	Exposure	Value	Population	Effects
dicopper oxide	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m³	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 ³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
ethylbenzene	DMEL	Long term Inhalation	442 mg/m³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
copper(II) oxide	DNEL	Long term Inhalation	1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m³	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 ³	General population	Local
	DNEL	Long term Inhalation	5.3 mg/m ³	General population	Local
	DNEL	Short term Inhalation	5.3 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	5.3 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	6.3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	44 mg/m³	Workers	Local
	DNEL	Long term Inhalation	44 mg/m³	Workers	Local
	DNEL	Short term Inhalation	44 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	44 mg/m³	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

PNECs

Product/ingredient name	Compartment Detail Value Me		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	-
kylene	Fresh water	0.327 mg/l	-
•	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	•	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		Assessment Factors

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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

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection Skin protection Hand protection

: Chemical splash goggles and face shield.

: 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.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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 workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Brownish-red.

Odour : Characteristic.

Odour threshold : Not available.

Melting point/freezing point

Initial boiling point and

boiling range

: >37.78°C (>100°F)

Flammability (solid, gas) : liquid

Upper/lower flammability or

explosive limits

: Not available.

Flash point : Closed cup: 21°C (69.8°F)

Auto-ignition temperature :

Ingredient name	°C	°F	Method
w/lene	432	809.6	

pH : Not applicable.

Not applicable. insoluble in water.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available.

Kinematic (40°C): >21 mm²/s

Solubility(ies) :

Media	Result
cold water	Not soluble

Miscible with water : No.

Partition coefficient: n-octanol/: Not applicable.

water

Vapour pressure :

	Vapour Pressure at 20°C			Vap	re at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
et hylbenzene	9.30076	1.2				

Relative density : 1.72

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

vapour or dust with air is possible.

Oxidising properties : Product does not present an oxidizing hazard.

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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
icopper 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	_
kylene	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 ³	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	-
ois(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	Rat	10 to 16 mg/l	4 hours
•	mists			
	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			
	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			
1-amide)				

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SECTION 11: Toxicological information

	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 LD50 Oral	Rabbit Rat	311 mg/kg 125 mg/kg	-

Conclusion/Summary
Acute toxicity estimates

: There are no data available on the mixture itself.

Product/ingredient name Oral (mg/ **Dermal** Inhalation Inhalation Inhalation kg) (mg/kg) (gases) (vapours) (dusts and mists) (ppm) (mg/l) (mg/I)SIGMA SAILADVANCE DX REDBROWN 1332.5 10806.9 N/A 49.9 2.2 N/A 500 N/A dicopper oxide N/A 3.34 1700 4300 N/A N/A xylene 11 ethylbenzene 3500 17800 17.8 N/A N/A 7600 N/A N/A N/A N/A rosin bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper 1075 N/A N/A N/A 0.07 tetraethyl silicate 6270 5878 N/A 11 N/A 4,5-dichloro-2-octyl-2H-isothiazol-3-one 567 1100 N/A N/A 0.16

octhilinone (ISO) Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene Skin - Moderate irritant		Rabbit	-	24 hours 500	-
				mg	

125

N/A

N/A

311

0.27

Conclusion/Summary

Not available.

Eyes Respiratory There are no data available on the mixture itself.There are no data available on the mixture itself.There are no data available on the mixture itself.

Sensitisation

Skin

Product/ingredient name	Route of exposure	Species	Result
octhilinone (ISO)	skin	Mouse	Sensitising

Conclusion/Summary

Skin Respiratory There are no data available on the mixture itself.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)

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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
e thylbenzene	Category 2	-	hearing organs

Aspiration hazard

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

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact: 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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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SECTION 11: Toxicological information

Conclusion/Summary : Not available.

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

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

subsequently exposed to very low levels.

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

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
øicopper 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 - Daphnia	48 hours
		magna - Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
4,5-dichloro-2-octyl-2H-	Acute EC50 267.368 µg/l Marine water	Algae - Diatom - <i>Nitzschia</i>	96 hours
isothiazol-3-one		pungens	
	Acute LC50 0.318 mg/l Marine water	Crustaceans - Brine shrimp -	48 hours
		Artemia sp.	
	Acute LC50 0.0027 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 19.789 µg/l Marine	Algae - Diatom - <i>Nitzschia</i>	96 hours
	water	pungens	
	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 - Daphnia	21 days
		magna - Neonate	
N,N'-ethane-1,2-diylbis	Acute EC50 29 to 43 mg/l	Algae - Pseudokirchneriella	72 hours
(12-hydroxyoctadecan-		subcapitata	
1-amide)			
	Acute EC50 94 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours

Conclusion/Summary: Not available.

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
kylene ethylbenzene rosin tetraethyl silicate N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan- 1-amide) octhilinone (ISO)	3.12 3.6 1.9 to 7.7 3.18 >6	7.4 to 18.5 79.43 - -	Low Low High Low High
* *			

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})

: 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. 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

Waste catalogue

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

: 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.

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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
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	II	II	II	II
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 information

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

≤5 kg.

: (D/E) Tunnel code

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or **ADN**

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

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

regulations.

user

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

the event of an accident or spillage.

14.7 Transport in bulk according to IMO

instruments

: Not available.

SECTION 15: Regulatory information

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

Not listed.

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

Product/ingredient name	Entry Number (REACH)
SIGMA SAILADVANCE DX REDBROWN	3

Labelling : Not applicable.

Seveso Directive

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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 RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification	
Flam. Lig. 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

Highly flammable liquid and vapour.
Flammable liquid and vapour.
Toxic if swallowed.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Toxic in contact with skin.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes serious eye irritation.
Fatal if inhaled.
Harmful if inhaled.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Harmful to aquatic life with long lasting effects.
Corrosive to the respiratory tract.

Full text of classifications

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SECTION 16: Other information

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

History

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revision

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Disclaimer

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