SAFETY DATA SHEET

Date of issue/Date of revision

: 12 April 2024

Version

: 1.03

Suriname



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

1.1 Product identifier	
Product name	: SIGMA ECOFLEET 290 S REDBROWN
Product code	: 000001100417
Other means of identificat 00249481	ion
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 o	f the safety data sheet
Varossieau Suriname NV, Mastanaweg 4, Paramaribo, SURINAME Tel: 00597 484447 Fax: 00597 483785	
e-mail address of person responsible for this SDS	: Product.Stewardship.EMEA@ppg.com
1.4 Emergency telephone number	: 0031 (0)20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Flam. Liq. 3, H226 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

2.2 Label elements

Code : 00000110041	7	Date of issue/Date of revision	: 12 April 2024			
SIGMA ECOFLEET 290 S REDBROWN						
SECTION 2: Hazards identification						
Hazard pictograms						
Signal word	: Danger	• • •				
Hazard statements	: Flammable liquid an Harmful if swallowe May cause an aller Causes serious eye May cause respirate May cause drowsin Suspected of causi Very toxic to aquati	d. gic skin reaction. e damage. ory irritation. ess or dizziness.				
Precautionary statements	, , , , , , , , , , , , , , , , , , ,	5 5				
Prevention		ves, protective clothing and eye or face pro sparks, open flames and other ignition sour onment.				
Response	: Collect spillage.					
Storage	: Store in a well-vent	ilated place. Keep container tightly closed.				
Disposal	international regula	s and container in accordance with all local, tions. P391, P403 + P233, P501	regional, national and			
Hazardous ingredients	: dicopper oxide Hydrocarbons, C9, rosin 4-methylpentan-2-o zineb (ISO)	aromatics < 0.1% cumene ne				
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 requiren	<u>nents</u>					
Containers to be fitted with child-resistant fastenings	: Not applicable.					
Tactile warning of danger	: Not applicable.					
2.3 Other hazards						
Product meets the criteria for PBT or vPvB	: This mixture does r	not contain any substances that are assess	ed to be a PBT or a vPvI			
Other hazards which do not result in classification	: Prolonged or repea	ted contact may dry skin and cause irritatio	n.			

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SIGMA ECOFLEET 290 S REDBROWN

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
dicopper 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 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10	[1] [2]
Hydrocarbons, C9, aromatics < 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	EUH066: C ≥ 20%	[1]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥10 - ≤25	Skin Sens. 1, H317	-	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥5.0 - ≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥5.0 - ≤10	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]
zineb (ISO)	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≥5.0 - ≤10	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
copper	REACH #: 01-2119480154-42	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
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Conforms 2020/878	to Regulation (EC) No. 1907/2006 (REAC	CH), Annex II, as amended by Commissio	n Regulation (EU)
<mark>Code</mark> SIGMA EC	: 000001100417 COFLEET 290 S REDBROWN	Date of issue/Date of revision	: 12 April 2024
SECTIC	ON 3: Composition/information	on on ingredients	
	EC: 231-159-6 CAS: 7440-50-8		

	C	CAS: 7440-50-8				
				See Section 16 for		
				the full text of the H statements declared		
				above.		
-	There are no additional ingredi	ents present which w	vithin the cu	rrent knowledge of the supr	lier and in the concentra	tions

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.

[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	<u>n effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

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SECTION 4: First aid	measures
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ing measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fr	rom the substance or mixture
Hazards from the substance or mixture	: 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 oxides of lead
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathin apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to Europea standard 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.

English (GB)
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 000001100417 Date of issue/Date of revision : 12 April 2024 SIGMA ECOFLEET 290 S REDBROWN SECTION 6: Accidental release measures 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 nonemergency personnel". 6.2 Environmental 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 precautions pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. 6.3 Methods and material for containment and cleaning up Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively. or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Use spark-proof tools and Large spill ÷ 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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. See Section 1 for emergency contact information. 6.4 Reference to other ÷ See Section 8 for information on appropriate personal protective equipment. sections

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).

See Section 13 for additional waste treatment information.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not 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.

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SECTION 7: Handli	ing and storage		
7.2 Conditions for safe storage, including any incompatibilities	with local regula container protec from incompatib Eliminate all igni closed and seale carefully reseale containers. Use	ne following temperatures: 0 to 35°C (32 to 95 tions. Store in a segregated and approved are ted from direct sunlight in a dry, cool and well- le materials (see Section 10) and food and dri tion sources. Separate from oxidising materia ed until ready for use. Containers that have be ad and kept upright to prevent leakage. Do not appropriate containment to avoid environment compatible materials before handling or use.	ea. Store in original ventilated area, away nk. Store locked up. ls. Keep container tightly een opened must be t store in unlabelled

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
dicopper oxide	ACGIH TLV (United States, 1/2023). [Copper Fume]
	TWA: 0.2 mg/m ³ 8 hours. Form: Fume
rosin	ACGIH TLV (United States, 1/2023). [resin acids as total Resin
	acids] Skin sensitiser. Inhalation sensitiser. TWA: 0.001 mg/m ³ , (as total Resin acids) 8 hours. Form: Inhalable
	fraction
4-methylpentan-2-one	EU OEL (Europe, 1/2022).
	STEL: 208 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 83 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]
	Absorbed through skin.
	STEL: 442 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
procedures Standard by inhalat strategy)	e should be made to monitoring standards, such as the following: European EN 689 (Workplace atmospheres - Guidance for the assessment of exposure tion to chemical agents for comparison with limit values and measurement European Standard EN 14042 (Workplace atmospheres - Guide for the on and use of procedures for the assessment of exposure to chemical and
requireme	agents) European Standard EN 482 (Workplace atmospheres - General ents for the performance of procedures for the measurement of chemical Reference to national guidance documents for methods for the determination

DNELs

of hazardous substances will also be required.

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Product/ingredient name	Туре	Exposure	Value	Population	Effects
dicopper oxide	DNEL	Long term Inhalation	1 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.041 mg/kg bw/	General	Systemic
			day	population	-
	DNEL	Short term Oral	0.082 mg/kg bw/	General	Systemic
			day	population	-
Hydrocarbons, C9, aromatics < 0.1% cumene	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg	General	Systemic
		Ũ	0 0	population	,
	DNEL	Long term Oral	11 mg/kg	General	Systemic
		5	5. 5	population	,
	DNEL	Long term Inhalation	32 mg/m ³	General	Systemic
			<u> </u>	population	- ,
rosin	DNEL	Long term Inhalation	10 mg/m ³	Workers	Local
	DNEL	Long term Oral	1.0655 mg/kg bw/	General	Systemic
			day	population	5,000
	DNEL	Long term Dermal	1.0655 mg/kg bw/	General	Systemic
	DIVLL	Long term Derma	day	population	Cysternio
	DNEL	Long term Dermal	2.131 mg/kg bw/	Workers	Systemic
	DIVLL	Long term Derma	day	WORKERS	Oysternie
zinc oxide	DNEL	Long term Inhalation	0.5 mg/m ³	Workers	Local
	DNEL	Long term Oral	0.83 mg/kg bw/day	General	Systemic
	DINLL	Long term Oral	0.05 mg/kg bw/day	population	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General	Systemic
			2.5 mg/m	population	Oysternic
	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General	Systemic
	DINCL	Long term Derma	00 mg/kg bw/day	population	Oysternie
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
4-methylpentan-2-one	DNEL	Long term Dermal	4.2 mg/kg bw/day	General	Systemic
4-methypentan-z-one	DINEL	Long term Derma	4.2 mg/kg bw/day	population	Oysternic
	DNEL	Long term Dermal	11.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	14.7 mg/m ³	General	Local
	DINCL		i., iig/iii	population	Local
	DNEL	Long term Inhalation	14.7 mg/m³	General	Systemic
	DIVLL		i 4.7 mg/m	population	Cysternio
	DNEL	Long term Inhalation	83 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	83 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	155.2 mg/m ³	General	Local
				population	
	DNEL	Short term Inhalation	155.2 mg/m ³	General	Systemic
	DITE		100.2 mg/m	population	eyetenne
	DNEL	Short term Inhalation	208 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	208 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	4.2 mg/kg bw/day	General	Systemic
				population	5,000
xylene	DNEL	Long term Oral	12.5 mg/kg bw/day	General	Systemic
				population	_ ,
	DNEL	Long term Inhalation	65.3 mg/m ³	General	Local
				population	
	DNEL	Long term Inhalation	65.3 mg/m ³	General	Systemic
				population	
	DNEL	Long term Dermal	125 mg/kg bw/day	General	Systemic
			c	population	5,0000
	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/m ³	Workers	Systemic
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	DNEL	Short term Inhalation	260 mg/m ³	General	Local
				population	
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
copper(II) oxide	DNEL	Long term Inhalation	1 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.041 mg/kg bw/	General	Systemic
		_	day	population	-
	DNEL	Short term Oral	0.082 mg/kg bw/	General	Systemic
			day	population	
copper	DNEL	Short term Inhalation	1 mg/m³	General	Local
				population	
	DNEL	Long term Inhalation	1 mg/m³	General	Local
				population	
	DNEL	Long term Oral	0.041 mg/kg bw/	General	Systemic
			day	population	
	DNEL	Long term Dermal	137 mg/kg bw/day	General	Systemic
				population	
	DNEL	Long term Dermal	137 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	273 mg/kg bw/day	General	Systemic
			070	population	
	DNEL	Short term Dermal	273 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Туре	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	-
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
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
4-methylpentan-2-one	-	Fresh water	0.6 mg/l	Assessment Factors
	-	Marine water	0.06 mg/l	Assessment Factors
	-	Sewage Treatment Plant	27.5 mg/l	Assessment Factors
	-	Fresh water sediment	8.27 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	0.83 mg/kg	Equilibrium Partitioning
	-	Soil	1.3 mg/kg	Equilibrium Partitioning
xylene	-	Fresh water	0.327 mg/l	-
	-	Marine water	0.327 mg/l	-
	-	Sewage Treatment Plant	6.58 mg/l	-
	-	Fresh water sediment	12.46 mg/kg dwt	-
	-	Marine water sediment	12.46 mg/kg dwt	-
	-	Soil	2.31 mg/kg	-

8.2 Exposure controls

English (GB)

Conforms to Regulation (EC) 2020/878	Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878						
Code : 00000110041	Date of issue/Date of revision : 12 April 2024						
SIGMA ECOFLEET 290 S RE	BROWN						
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>es</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.						
Gloves	: 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.						
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.						
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3						
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.						

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u> Physical state Colour

: Liquid.

: Brownish-red.

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SECTION 9: Physical and chemical properties

-								
Odour	:	Characteristic.						
Odour threshold	:	Not available.	lot available.					
Melting point/freezing point	:		ay start to solidify at the following temperature: -43.77°C (-46.8°F) This is based data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average: 9.54°C (-93.2°F)					
Initial boiling point and boiling range	:	>37.78°C						
Flammability	1	Not available.	ot available.					
Upper/lower flammability or explosive limits	:	Greatest known rang light aromatic)	e: Lower:	1.4% l	Jpper: 7.6%	(Solvent	naphtha (p	etroleum),
Flash point	:	Closed cup: 30°C						
Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
		zineb (ISO)		149	300.	2		
Decomposition temperature pH	:	Stable under recomn Not applicable. insolu	uble in wa	•	nd handling	condition	is (see Sec	tion 7).
Viscosity	1	Kinematic (40°C): >2	21 mm²/s					
Solubility(ies)	1							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octanol water	/:	Not applicable.						
Vapour pressure	:		Vapoι	ır Press	sure at 20°C	; Va	pour press	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		4-methylpentan-2-one	15.75128	2.1				
Evaporation rate	:	Highest known value 1.56compared with b			ntan-2-one)	Weighte	d average:	
Relative density	:	1.68						
Vapour density	:	Highest known value 1)	: 4.15 (Ai	r = 1) (3-ethyltolue	ne). Weig	ghted avera	age: 3.8 (Ai
.		The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Explosive properties	-							
			ir is possi	ble.				
Explosive properties Oxidising properties Particle characteristics		vapour or dust with a	ir is possi	ble.				

9.2 Other information

Γ

No additional information.

SECTION 10: Stability and reactivity					
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				
10.2 Chemical stability	: The product is stable.				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				

English (GB)

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SECTION 10: Stability and reactivity

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
dicopper 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	-
Hydrocarbons, C9, aromatics < 0.1%	LD50 Dermal	Rabbit -	>2000 mg/kg	-
cumene		Male,		
		Female		
	LD50 Oral	Rat	8400 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/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	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
zineb (ISO)	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
	mists			

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	+		:	•	
Skin : There are no data available on the mixture itself.					

- Eyes
 - : There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
zineb (ISO)	skin	Guinea pig	Sensitising

Conclusion/Summary

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SECTION 11: Toxicological information

	-
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
On a sifile toward away towi	

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
₩ydrocarbons, C9, aromatics < 0.1% cumene	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects
4-methylpentan-2-one	Category 3	-	Narcotic effects
zineb (ISO)	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

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

Information on likely	: Not available.
routes of exposure	

Potential acute health effe	ects
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the p	physical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion	: Adverse symptoms may include the following: stomach pains

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SECTION 11: Toxicol	ogical info	ormation			
Skin contact	pain or irrita redness dryness cracking	dryness			
Eye contact	: Adverse symptoms may include the following: pain watering redness				
	cts as well as (chronic effects from short and long-term expos	<u>sure</u>		
Short term exposure					
Potential immediate effects	: Not availabl	Not available.			
Potential delayed effects	: Not availabl	le.			
Long term exposure					
Potential immediate effects	: Not availabl	Not available.			
Potential delayed effects	: Not availabl	e.			
Potential chronic health effe	ects				
Not available.					
Conclusion/Summary	: Not availabl	le.			
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	: Suspected exposure.	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.			
Mutagenicity	: No known s	ignificant effects or critical hazards.			
Reproductive toxicity	: No known s	No known significant effects or critical hazards.			
Other information	: Not availabl	Not available.			

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
dícopper oxide	LC50 0.003 mg/l	Fish	96 hours
Hydrocarbons, C9, aromatics < 0.1% cumene	LC50 9.2 mg/l	Fish	96 hours
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l	Daphnia - Daphnia	48 hours
	Fresh water	<i>magna</i> - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water	-	
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
✓ydrocarbons, C9, aromatics < 0.1% cumene	-	78 % - 28 days	-	-
	OECD 301F	83 % - Readily - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
₩ydrocarbons, C9, aromatics < 0.1% cumene 4-methylpentan-2-one xylene	- -	- -	Readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
₩ydrocarbons, C9, aromatics < 0.1% cumene	3.7 to 4.5	10 to 2500	High
rosin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
xylene	3.12	7.4 to 18.5	Low

12.4 Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

Mobility

12.7 Other adverse effects

No known significant effects or critical hazards.

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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 : The generation of waste should be avoided or minimised wherever possible. Disposal Methods of 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. The classification of the product may meet the criteria for a hazardous waste. **Hazardous waste** ŝ,

European waste catalogue (EWC)

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when Empty conta residues ma Do not cut, v	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 container. weld or grind used containers unless they have been cleaned thoroughly word dispersal of spilt material and runoff and contact with soil, waterways, sewers.	

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш	Ш	III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	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.

Tunnel code : (D/E)

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		•		
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SECTION	14: Transpo	ort information		
IMDG	: The marin	e pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.		
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.			
14.6 Special user	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 Transpo according to instruments	OMO	: Not applicable.		
SECTION	15: Regulat	ory information		

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

Other national and international regulations.

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria Category P5c E1 **15.2 Chemical safety**

assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations a	: ATE = Acute Toxicity Estimate	
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]	
	DNEL = Derived No Effect Level	
	EUH statement = CLP-specific Hazard statement	
	PNEC = Predicted No Effect Concentration	
	RRN = REACH Registration Number	

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

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SECTION 16: Other information

Flam. Liq. 3, H226 On basis of test data Acute Tox. 4, H302 Calculation method Eye Dam. 1, H318 Calculation method Skin Sens. 1, H317 Calculation method Carc. 2, H351 Calculation method STOT SE 3, H335 Calculation method STOT SE 3, H336 Calculation method Aquatic Acute 1, H400 Calculation method Aquatic Chronic 1, H410 Calculation method Full text of abbreviated H : H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed. H304 M304 May be fatal if swallowed. H312 Harmful if wallowed. H314 May cause an allergic skin reaction. H317 May cause an allergic skin reaction. H318 H318 Causes serious eye irritation. H336 H318 Causes serious eye irritation. H336 H318 Suspected of causing cancer. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.	Classification		Justification	
statementsH226Flammable liquid and vapour.H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H315Harmful in contact with skin.H315Causes skin irritation.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye irritation.H332Harmful if inhaled.H335May cause respiratory irritation.H336May cause respiratory irritation.H337Suspected of causing cancer.H400Very toxic to aquatic life.H410Very toxic to aquatic life with long lasting effects.H411Toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.EUH066Repeated exposure may cause skin dryness or cracking.Full text of classifications:Acute Tox. 4ACUTE TOXICITY - Category 4Aquatic Acute 1SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Asp. Tox. 1ASPIRATION HAZARD - Category 1Carc. 2CARCINOGENICITY - Category 2Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT SE 3, H336 Aquatic Acute 1, H400		Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method	
Full text of classifications [CLP/GHS]: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		H226Flammable liquidH302Harmful if swallowH304May be fatal if swaH312Harmful in contactH312Harmful in contactH315Causes skin irritatH317May cause an alleH318Causes serious egH319Causes serious egH332Harmful if inhaledH335May cause respiratH336May cause drowsiH351Suspected of causH400Very toxic to aquaH410Very toxic to aquaH411Toxic to aquatic lifH412Harmful to aquatic	Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.	
Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1STOT SE 3SPECIFIC TARGET ORGAN TOXICITY - SINGLEEXPOSURE - Category 3		: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE	
History				
Date of issue/ Date of : 12 April 2024 revision		: 12 April 2024		
Date of previous issue : 30 August 2023	Date of previous issue	: 30 August 2023		
Prepared by : EHS	Prepared by	: EHS		
Version : 1.03	Version	: 1.03		
Disclaimer				

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