SAFETY DATA SHEET

Date of issue/Date of revision

: 12 April 2024

Version

: 1.02

P	DG

SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier Product name : PPG SIGMA SAILADVANCE RX BROWN Product code : 000001188846 Other means of identification

00444778

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

1.3 Details of the supplier of the safety data sheet

 Sigma Coatings PTY
 9 Arnold Street,

 Alrode, Alberton, Gauteng
 South Africa

 Tel: 0027 11 389 4800
 : PS.ACEMEA@ppg.com

 e-mail address of person
 : PS.ACEMEA@ppg.com

 1.4 Emergency telephone
 : +27 51 444 2134

 number
 : +27 51 444 2134

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>

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

English (GB)

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PPG SIGMA SAILADVANCE RX BROWN				
SECTION 2: Hazards identification				
Hazard pictograms			>	
Signal word	: Danger			
Hazard statements	: Flammable liquid a Harmful if swallow May cause an aller Causes serious ey May cause respira May cause drowsir Suspected of caus	ed. rgic skin reaction. re damage. tory irritation. ness or dizziness.		
Precautionary statements				
Prevention		oves, protective clothing and eye or face pr , sparks, open flames and other ignition sou ronment.		
Response	: Collect spillage.			
Storage	: Store in a well-ven	tilated place. Keep container tightly closed.		
Disposal	international regula	ts and container in accordance with all loca ations. , P391, P403 + P233, P501	l, regional, national and	
Hazardous ingredients	: dicopper oxide Hydrocarbons, C9, rosin 4-methylpentan-2-d zineb (ISO) xylene Terpineol	, aromatics < 0.1% cumene one		
Supplemental label elements	: Not applicable.			
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.			
Special packaging requirem	<u>ients</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	not contain any substances that are assess	sed to be a PBT or a vPvI	
Other hazards which do not result in classification	: Prolonged or repea	ated contact may dry skin and cause irritation	on.	

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PPG SIGMA SAILADVANCE RX BROWN

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

If copper oxideREACH #: $01-2119513794-36$ EC: 215-270-7 CAS: 1317-39-1 index: 029-002-00-X $\geq 25 - \leq 50$ Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410TE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10Hydrocarbons, C9, aromatics < 0.1% cumeneREACH #: $01-2119455851-35$ EC: 918-668-5 CAS: 64742-95-6 $\geq 10 - <20$ Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066EUH066: C $\geq 20\%$ [1]rosinREACH #: $01-2119480418-32$ EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 $\geq 10 - \leq 25$ Skin Sens. 1, H317 Aquatic Chronic 1, H410Image: 10 - 11 [1]rosinREACH #: $01-2119480418-32$ EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 $\geq 10 - \leq 25$ Skin Sens. 1, H317 Aquatic Chronic 1, H410Image: 11 [1]rosinREACH #: $01-2119463881-32$ EC: 215-222-5 CAS: 1317-132-11 $\geq 10 - \leq 25$ Skin Sens. 1, H317 Aquatic Chronic 1, H410M [Acute] = 1 M [Chronic] = 14-methylpentan-2-oneREACH #: $01-2119473980-30$ EC: 203-560-1 CAS: 1317-132-2 Index: 606-004-00-4 $\geq 1.0 - \leq 5.0$ Flam. Liq. 2, H225 Acute Tox. 4, H332 EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2 $\geq 1.0 - \leq 5.0$ Skin Sens. 1, H317 STOT SE 3, H335Image: 11 [1]Index: 006-078-00-2 $\geq 1.0 - \leq 5.0$ Skin Sens. 1, H317 STOT SE 3, H335Image: 11 [1]						
#fcopper oxide REACH #: 01-2119513794-36 CAS: 1317-39-1 index: 02-002-00-X $\geq 25 - \leq 50$ Acute Tox. 4, H302 Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H4101 M [Acute] = 100 M [Chronic] = 10 [1] [2] (1] [2] (2] (2] (2] (2] (2] (2] (2] (2] (2] (Product/ingredient name	Identifiers	%	Classification	Limits, M-factors	Туре
aromatics < 0.1% cumme 01-2119455851-35 C: 918-668-5 CAS: 64742-95-6 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 Image: Comparison of the text of text of the text of text	øicopper oxide	01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1	≥25 - ≤50	Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400	ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100	[1] [2]
01-2119490418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 $\geq 10 - \leq 25$ Aquatic Acute 1, H400 Aquatic Chronic 1, H410M [Acute] = 1 M [Chronic] = 1[1]2inc oxideREACH # 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 $\geq 10 - \leq 25$ Aquatic Acute 1, H400 Aquatic Chronic 1, H410M [Acute] = 1 M [Chronic] = 1[1]4-methylpentan-2-oneREACH #: 01-2119473980-30 EC: 213-560-1 CAS: 108-10-1 Index: 606-004-00-4 $\geq 5.0 - \leq 10$ Flam. Liq. 2, H225 Acute Tox. 4, H332 EY Int 2, H319 STOT SE 3, H336ATE [Inhalation (vapours)] = 11 mg/l EUH066: C $\geq 20\%$ [1] [2]xyleneREACH #: 01-211948216-32 EC: 215-535-7 CAS: 130-20-7 $\geq 1.0 - \leq 5.0$ Skin Sens. 1, H317 STOT SE 3, H335 Acute Tox. 4, H332 StoT SE 3, H335-[1] [2]12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine acid, reaction products with 1,3-benzenedimethanamine eC: 432-840-2 CAS: 12020-67-6 $\geq 0.30 - \leq 4.4$ Skin Irrit. 2, H315 STOT SE 2, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412ATE [Inhalation (dusts and mists)] = 3.56 mg/l[1] [2]12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine eC: 432-840-2 CAS: 120205-97-6 $\geq 0.30 - \leq 4.4$ Skin Irrit. 2, H315 STOT SE 2, H315 Asp. Tox. 1, H304 Aquatic Chronic 3, H412ATE [Inhalation (dusts and mists)] = 3.56 mg/l[1] [2]12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine eC: 432-840-2 CAS: 22026-97-6 $\geq 0.30 - \leq 4.4$ Skin Irrit. 2, H315 STOT RE 2, H319ATE [Inhalation (dusts <br< td=""><td>Hydrocarbons, C9, aromatics < 0.1% cumene</td><td>01-2119455851-35 EC: 918-668-5</td><td>≥10 - <20</td><td>STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td><td>EUH066: C ≥ 20%</td><td>[1]</td></br<>	Hydrocarbons, C9, aromatics < 0.1% cumene	01-2119455851-35 EC: 918-668-5	≥10 - <20	STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	EUH066: C ≥ 20%	[1]
Image: Di-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7Aquatic Chronic 1, H410M [Chronic] = 14-methylpentan-2-oneREACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4 $\geq 5.0 - \leq 10$ Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336ATE [Inhalation (vapours]] = 11 mg/l EUH066: C $\geq 20\%$ [1] [2]zineb (ISO)EC: 235-180-1 CAS: 1212-67-7 Index: 006-078-00-2 $\geq 1.0 - \leq 5.0$ Skin Sens. 1, H317 	rosin	01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7	≥10 - ≤25	Skin Sens. 1, H317	-	[1] [2]
1.101-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 	zinc oxide	01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2	≥10 - ≤25			[1]
xyleneCAS: 12122-67-7 Index: 006-078-00-2STOT SE 3, H335ATE [Dermal] = 1700 mg/kg Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H312 	4-methylpentan-2-one	01-2119473980-30 EC: 203-550-1 CAS: 108-10-1	≥5.0 - ≤10	Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336	(vapours)] = 11 mg/l	[1] [2]
$\begin{array}{c} 01-2119488216-32\\ EC: 215-535-7\\ CAS: 1330-20-7\\ \end{array}$ $\begin{array}{c} Acute Tox. 4, H312\\ Acute Tox. 4, H332\\ Skin Irrit. 2, H315\\ Eye Irrit. 2, H319\\ STOT SE 3, H335\\ Asp. Tox. 1, H304\\ Aquatic Chronic 3, H412\\ \end{array}$ $\begin{array}{c} Acute Tox. 4, H322\\ Acute Tox. 4, H332\\ Skin Irrit. 2, H319\\ STOT SE 3, H335\\ Asp. Tox. 1, H304\\ Aquatic Chronic 3, H412\\ \end{array}$ $\begin{array}{c} Acute Tox. 4, H322\\ Acute Tox. 4, H332\\ Stor SE 3, H335\\ Asp. Tox. 1, H304\\ Aquatic Chronic 3, H412\\ \end{array}$ $\begin{array}{c} Acute Tox. 4, H322\\ STOT SE 3, H335\\ Asp. Tox. 1, H304\\ Aquatic Chronic 3, H412\\ \end{array}$ $\begin{array}{c} ATE [Inhalation (dusts]] = 11 mg/l\\ and mists] = 3.56 mg/l\\ Index: 616-201-00-7\\ \end{array}$ $\begin{array}{c} Terpineol\\ REACH \#:\\ 01-2119553062-49\\ \end{array}$ $\begin{array}{c} \geq 1.0 - \leq 4.4\\ Skin Irrit. 2, H319\\ Eye Irrit. 2, H319\\ \end{array}$	zineb (ISO)	CAS: 12122-67-7	≥1.0 - ≤5.0		-	[1]
acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7 ≤ 2.4 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413and mists)] = 3.56 mg/lImage: Complex co	xylene	01-2119488216-32 EC: 215-535-7	≥1.0 - ≤5.0	Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	mg/kg ATE [Inhalation	[1] [2]
01-2119553062-49 Eye Irrit. 2, H319	acid, reaction products with 1,3-benzenedimethanamine	01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6		STOT RE 2, H373 (lungs) (inhalation)		[1] [2]
English (GB)South Africa3/17	Terpineol		≥1.0 - ≤4.4		-	[1]
			English	(GB) South	Africa	3/17

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

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SECTION 3: Composition/information on ingredients

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	EC: 232-268-1 CAS: 8000-41-7		Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411		
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 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[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.

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 at least 15 minutes, keeping eyelids open. Seek immediate medical attention.	ior
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 traine personnel.	d
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 t give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	о

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	
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/sympto	<u>ms</u>

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SECTION 4: First aid measures

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
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 imm	ediate 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.
Constitution transferments	Ne aposifia tractment

Specific treatments : No specific treatment.

SECTION 5: Firefighting 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 f	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.

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SECTION 5: Firefight	ing measures
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 European standard EN 469 will provide a basic level of protection for chemical incidents.
SECTION 6: Accident	al release measures
6.1 Personal precautions, pro	tective 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
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

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

English (GB)

South Africa

Conforms to Regulation (E 2020/878	C) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
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SECTION 7: Handl	ing and storage
	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

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).

Section 10 for incompatible materials before handling or use.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values				
dícopper oxide	DOL OEL (South Africa, 3/2021). [copper: fume (copper oxide) as				
	TWA: 0.4 mg/m ³ , (as Cu) 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				
zinc oxide	DOL OEL (South Africa, 3/2021).				
	TWA: 4 mg/m ³ 8 hours. Form: Fume, respirable fraction				
4 menthudu emtern Querre	STEL: 20 mg/m ³ 15 minutes. Form: Fume, respirable fraction				
4-methylpentan-2-one	DOL OEL (South Africa, 3/2021). Absorbed through skin.				
	TWA: 40 ppm 8 hours.				
4.0.4 twins attack and an and	STEL: 150 ppm 15 minutes.				
1,2,4-trimethylbenzene	DOL OEL (South Africa, 3/2021). [trimethylbenzene, all isomers				
	or mixtures]				
diiron trioxide	TWA: 50 ppm 8 hours.				
	DOL OEL (South Africa, 3/2021).				
xylono.	TWA: 10 mg/m ³ , (as Fe) 8 hours. Form: Fume, respirable fraction DOL OEL (South Africa, 3/2021). [xylene, o-, m-, p- or mixed				
xylene	isomers] Absorbed through skin.				
	TWA: 200 ppm 8 hours.				
	STEL: 300 ppm 15 minutes.				
12-hydroxyoctadecanoic acid, reaction products	ACGIH TLV (United States).				
with 1,3-benzenedimethanamine and	TWA: 10 mg/m ³ Form: Inhalable particle				
hexamethylenediamine	TWA: 10 mg/m ² Form: innalable particle TWA: 3 mg/m ³ , (inhalable dust) Form: Respirable particle				
nexametryienediamine					

Biological exposure indices

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Product/ingredier	nt r	name	Exposure indices				
4-methylpentan-2-one	4-methylpentan-2-one		DOL BEI (South Africa, 3/2021) BEI: 1 mg/I, methyl isobutyl ketone [in urine]. Sampling time: end of shift.				
xylene			DOL BEI (South Africa, 3/2 BEI: 1.5 g/g creatinine, met end of shift.	021) [xylenes] hylhippuric acid [in urine]. Samp	ling time:		
Recommended monitoring procedures	:	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	 (Workplace atmospheres - C hemical agents for compariso ean Standard EN 14042 (Work se of procedures for the asse European Standard EN 482 the performance of procedure 	dards, such as the following: Eu Guidance for the assessment of n with limit values and measure kplace atmospheres - Guide for ssment of exposure to chemical (Workplace atmospheres - Ger es for the measurement of chem nents for methods for the deterr	exposure ment the and neral ical		
8.2 Exposure controls							
Appropriate engineering controls	:	other engineering recommended or	controls to keep worker exp statutory limits. The enginee oncentrations below any lower	ss enclosures, local exhaust ver osure to airborne contaminants l ering controls also need to keep • explosive limits. Use explosion	pelow any gas,		
Individual protection measur							
Hygiene measures	:	eating, smoking a Appropriate techn Contaminated wo contaminated clo	and using the lavatory and at niques should be used to rem ork clothing should not be allo	ter handling chemical products, the end of the working period. ove potentially contaminated clo wed out of the workplace. Wash that eyewash stations and safe	thing. า		
Eye/face protection Skin protection	:	Chemical splash	goggles and face shield.				
Hand protection	:	worn at all times necessary. Cons during use that the noted that the time glove manufacture protection time of frequently repeat (breakthrough time When only brief of (breakthrough time The user must che product is the more	when handling chemical prod sidering the parameters speci- ne gloves are still retaining the ne to breakthrough for any glo rers. In the case of mixtures, f the gloves cannot be accura ed contact may occur, a glove ne greater than 480 minutes a contact is expected, a glove w ne greater than 30 minutes ac neck that the final choice of ty	ng with an approved standard sl ucts if a risk assessment indicat fied by the glove manufacturer, o ir protective properties. It shoul ve material may be different for consisting of several substance tely estimated. When prolonged with a protection class of 6 according to EN 374) is recommen- tith a protection class of 2 or high cording to EN 374) is recommen- pe of glove selected for handling account the particular conditions	es this is check d be different s, the d or ended. ner nded. J this		
Gloves		butyl rubber					
Body protection Other skin 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. Appropriate footwear and any additional skin protection measures should be selected					
			handling this product.	ks involved and should be appro			
			English (GB)	South Africa	8/17		

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Respiratory protection	hazards of the product are exposed to concen- certified respirators. Us with an approved stand	ast be based on known or anticipated e and the safe working limits of the selec rations above the exposure limit, they se a properly fitted, air-purifying or air-f ard if a risk assessment indicates this o EN140. Filter type: organic vapour (cted respirator. If workers must use appropriate, fed respirator complying is necessary. Wear a
Environmental exposure controls	they comply with the re cases, fume scrubbers	ion or work process equipment should quirements of environmental protection filters or engineering modifications to uce emissions to acceptable levels.	n legislation. In some

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 physica	l a	nd chemical propert	ies						
<u>Appearance</u>									
Physical state	1	Liquid.							
Colour	1	Brown.	Brown.						
Odour	:	Aromatic. [Slight]							
Odour threshold	1	Not available.							
Melting point/freezing point	:	May start to solidify at the following temperature: -35.9 to -28.2°C (-32.6 to -18.8°F) This is based on data for the following ingredient: Terpineol. Weighted average: ·69.16°C (-92.5°F)							
Initial boiling point and boiling range	:	>37.78°C							
Flammability	:	Not available.							
Upper/lower flammability or explosive limits	:	Greatest known rang light aromatic)	e: Lower:	1.4% U	oper: 7.6%	6 (Solvent	naphtha (p	etroleum),	
Flash point	:	Closed cup: 28°C							
Auto-ignition temperature	:	Ingredient name		°C	°F		Method		
		zineb (ISO)		149	300	.2			
Decomposition temperature pH Viscosity Viscosity Solubility(ies)		Stable under recomm Not applicable. insolu Kinematic (40°C): >2 > 100 s (ISO 6mm)	ıble in wa	-	d handling	condition	s (see Sec	tion 7).	
Media	-	Result							
cold water		Not soluble							
Partition coefficient: n-octanol/ water	:								
Vapour pressure	:		Vapoι	ır Pressu	ure at 20°0	C Va	Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		4-methylpentan-2-one	15.75128	2.1					
Evaporation rate	:	L Highest known value 1.58compared with b			tan-2-one)) Weighte	d average:		
Relative density	1	1.66							
Vapour density Explosive properties	:	Highest known value	: 5.3 (Air	= 1) (Te	rpineol). \	Neighted a	average: 3	.84 (Air = 1)	
		Ena	lich (GB)		S	ith Africa		0/17	

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SECTION 9: Physical and chemical properties

The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

- **Oxidising properties** : Product does not present an oxidizing hazard.
- Particle characteristicsMedian particle size: Not a

: Not applicable.

9.2 Other information

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.				
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		Ū Ū	
	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	-
5	LD50 Oral	Rat	4.3 g/kg	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine	mists		5	
······································				
	English (GB)	South	n Africa	10/17

Conforms to Regulation (EC) No. 1907 2020/878	(12006 (REACH), Annex II, as amei	nded by Comm	ission Regulatio	on (EU)
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SECTION 11: Toxicologica	l information			
and hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<mark>i≪</mark> jlene Terpineol	Skin - Moderate irritant Skin - Irritant	Rabbit Rabbit	-	24 hours 500 mg -	-

Conclusion/Summary

: There are no data available on the mixture itself.

mists

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory

Skin

Eyes

Sensitisation

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

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
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 toxici	<u>ty (single exposure)</u>

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 zineb (ISO)	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs

Aspiration hazard

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SECTION 11: Toxicological information

Product/	ing	redient name	Result	
₩ydrocarbons, C9, aromatics xylene Terpineol			ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	:	Not available.		
Potential acute health effec	ts			
Inhalation	1	Can cause central nervous system dizziness. May cause respiratory in	(CNS) depression. May cause drowsiness or ritation.	
Ingestion	:	Harmful if swallowed. Can cause of	entral nervous system (CNS) depression.	
Skin contact	1	Defatting to the skin. May cause s reaction.	kin dryness and irritation. May cause an allergi	ic skin
Eye contact		Causes serious eye damage.		
Symptoms related to the ph	<u>iys</u>	ical, chemical and toxicological c	haracteristics	
Inhalation		Adverse symptoms may include the respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness		
Ingestion	1	Adverse symptoms may include the stomach pains	e following:	
Skin contact	:	Adverse symptoms may include the pain or irritation redness dryness cracking blistering may occur	e following:	
Eye contact	:	Adverse symptoms may include the pain watering redness	e following:	
Delayed and immediate effe	ecte	s as well as chronic effects from s	hort and long-term exposure	
Short term exposure				
Potential immediate effects	1	Not available.		
Potential delayed effects	:	Not available.		
Long term exposure				
Potential immediate effects	1	Not available.		
Potential delayed effects	:	Not available.		
Potential chronic health eff	ect	<u>'S</u>		
Not available.				
Conclusion/Summary		Not available.		
General	:		defat the skin and lead to irritation, cracking an ere allergic reaction may occur when subseque	
Carcinogenicity	:	· ·	of cancer depends on duration and level of	
		English (GB)	South Africa 12	2/17

Conforms 2020/878	s to Regulation (EC) No. 1907/2006 (REA	CH), Annex II, as amended by Commissio	n Regulation (EU)
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Mutagenicity

: No known significant effects or critical hazards.

- **Reproductive toxicity**
- : No known significant effects or critical hazards.

: Not available.

Other information

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

Product/ingredient name	Result	Species	Exposure
dicopper 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 - <i>Daphnia</i>	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water		
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with	Acute EC50 >100 mg/l	Algae -	72 hours
1,3-benzenedimethanamine and		Pseudokirchneriella	
hexamethylenediamine		subcapitata	
		(microalgae)	
	Acute EC50 >100 mg/l	Daphnia - Daphnia	48 hours
		magna (Water flea)	
	Acute LC50 >100 mg/l	Fish - Oncorhynchus	96 hours
		mykiss (rainbow	
		trout)	
	Chronic NOEC 100 mg/l	Algae -	72 hours
		Pseudokirchneriella	
		subcapitata	
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia	21 days
		magna (Water flea)	001
copper	Acute LC50 810 ppb	Fish	96 hours
	Chronic EC10 8.1 µg/l	Daphnia - <i>Daphnia</i>	21 days
		<i>magna</i> - Neonate	

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 4-methylpentan-2-one 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	78 % - 28 days 83 % - Readily - 28 days 9 % - Not readily - 29 days	-	-

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SECTION 12: Ecological information

Conclusion/Summary : There are no data a	available on the mixture	itself.	
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
	- - -	- - -	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-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	>6	-	High
Terpineol	2.6	-	Low

12.4	Mob	ility in	soil
------	-----	----------	------

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product Methods of disposal The generation of waste should be avoided or minimised wherever possible. Disposal 5 of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

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

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packaging		ration of waste should be avoided or minimised wherever possible. Waste g should be recycled. Incineration or landfill should only be considered when is not feasible.		
Type of packaging	European waste catalogue (EWC)			
Container	15 01 06	mixed packaging		
Special precautions	taken when ha Empty contair residues may Do not cut, we	and its container must be disposed of in a safe w andling emptied containers that have not been cl ners or liners may retain some product residues. create a highly flammable or explosive atmosphe eld or grind used containers unless they have bee oid dispersal of spilt material and runoff and cont wers.	eaned or rinsed out. Vapour from product ere inside the container en cleaned thoroughly	

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	
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

Additional inform	
ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine 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 pre user	cautions 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 i according to IM instruments	

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SECTION 15: Regulatory informat	tion			
15.1 Safety, health and environmental regulation	ons/legislation specific for the substance or mixture			
EU Regulation (EC) No. 1907/2006 (REACH)				
Annex XIV - List of substances subject to au	ithorisation			
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.				

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

May cause damage to organs through prolonged or repeated exposure.

assessment

acronyms

statements

Abbreviations and

Full text of abbreviated H

Full text of classifications

[CLP/GHS]

SECTION 16: Other information

Indicates information that has changed from previously issued version.

: H225

H226

H302

H304

H312

H315

H317

H318

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H335

H336

H351

H373

H400

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H412

H413

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: ATE = Acute Toxicity Estimate

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Flammable liquid and vapour.

Harmful in contact with skin.

Causes serious eye irritation.

May cause respiratory irritation.

Suspected of causing cancer.

Very toxic to aquatic life.

Harmful if swallowed.

Causes skin irritation.

Harmful if inhaled.

Highly flammable liquid and vapour.

May cause an allergic skin reaction. Causes serious eye damage.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

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. May cause long lasting harmful effects to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

English (GB)

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SECTION 16: Other information			
	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Catego LONG-TERM (CHRONIC) AQUATIC HAZARD - Categ LONG-TERM (CHRONIC) AQUATIC HAZARD - Categ LONG-TERM (CHRONIC) AQUATIC HAZARD - Categ LONG-TERM (CHRONIC) AQUATIC HAZARD - Categ ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category SERIOUS EYE DAMAGE/EYE IRRITATION - Category FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
History Date of issue/ Date of revision	: 12 April 2024		
Date of previous issue	: 30 August 2023		
Prepared by	: EHS		
Version	: 1.02		

<u>Disclaimer</u>

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