SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 21 October 2023

Version

: 11

SECTION 1: Identifi undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: SIGMA SAILADVANCE RX BROWN
Product code	: 00371224
Other means of identifica	tion
Not available.	
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Antifouling products
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	of the safety data sheet
Sigma Paint Saudi Arabia L	td.
PO Box 7509 Dammam 31472	
Saudi Arabia	
Tel: 00966 138 47 31 00	
Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

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] ▼fam. Liq. 3, H226 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 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

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SIGMA SAILADVANCE RX B	
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Fammable liquid and vapour. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause drowsiness or dizziness. May cause cancer. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: ₩ear protective gloves, protective clothing and eye or face protection. Keep away fro heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoi release to the environment.
Response	: 🖉ollect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P403 + P233, P501
Hazardous ingredients	 dicopper oxide Hydrocarbons, C9, aromatics > 0.1% cumene rosin 4-methylpentan-2-one zineb (ISO) Oils, pine p-mentha-1,4(8)-diene
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
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 assessed to be a PBT or a vPv
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

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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 - ≤15	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	Carc. 1B, H350: C ≥ 10% 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	≥10 - ≤25	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	≥1.0 - ≤4.7	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥0.30 - ≤2.3	Acute Tox. 4, H332 STOT RE 2, H373 (lungs) (inhalation) Aquatic Chronic 4, H413	ATE [Inhalation (dusts and mists)] = 3.56 mg/l	[1] [2]
Oils, pine	CAS: 8002-09-3	<1.0	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1	≤1.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
		English	(GB) United Arab Er	nirates	3/17

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SECTION 3: Composition/information on ingredients

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	CAS: 1317-38-0 Index: 029-016-00-6				
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	≤0.30	Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
p-mentha-1,4(8)-diene	REACH #: 01-2119982325-32 EC: 209-578-0 CAS: 586-62-9	≤0.30	Flam. Liq. 3, H226 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	M [Acute] = 1 M [Chronic] = 1	[1]

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

<u>Type</u>

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		nses. Immediately flush eyes with running water for open. Seek immediate medical attention.
Inhalation		arm and at rest. If not breathing, if breathing is s, provide artificial respiration or oxygen by trained
Skin contact	emove contaminated clothing and s r use recognised skin cleanser. Do l	hoes. Wash skin thoroughly with soap and water NOT use solvents or thinners.
Ingestion	swallowed, seek medical advice im erson warm and at rest. Do NOT inc	mediately and show the container or label. Keep duce vomiting.
Protection of first-aiders	uspected that fumes are still present elf-contained breathing apparatus. I	y personal risk or without suitable training. If it is t, the rescuer should wear an appropriate mask or t may be dangerous to the person providing aid to Vash contaminated clothing thoroughly with water

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.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: 📕 armful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	o <u>ms</u>

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SECTION 4: First aid measures

E	
Eye contact	: Adverse symptoms may include the following: pain watering redness
nhalation	: Adverse symptoms may include the following: 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 immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising fr	om 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
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 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	otective 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 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.

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Fut 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.

Conforms to Regulation 2020/878	(EC) No. 1907/2006 (RI	EACH), Annex II, as amended by Commission	n Regulation (EU)	
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SECTION 7: Hand	lling and storage	e		
7.2 Conditions for safe	: Store between	the following temperatures: 0 to 35°C (32 to 95	°F). Store in accordance	

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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
dícopper oxide	ACGIH TLV (United States, 1/2022). [Copper Fume]
	TWA: 0.2 mg/m ³ 8 hours. Form: Fume
rosin	ACGIH TLV (United States, 1/2022). [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	ACGIH TLV (United States, 1/2022). Notes: Respirable fraction;
	see Appendix C, paragraph C. ACGIH 2003 Adoption
	STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction
	TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction
4-methylpentan-2-one	ACGIH TLV (United States, 1/2022). Notes: Substances for
	which there is a Biological Exposure Index or Indices
	STEL: 75 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 1/2022).
	TWA: 10 ppm 8 hours.
diiron trioxide	ACGIH TLV (United States, 1/2022). Notes: Refers to Appendix B
	Substances of Variable Composition. Respirable fraction; see
	Appendix C, paragraph C.
	TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
calcium carbonate	ACGIH TLV (United States).
	TWA: 3 mg/m ³ Form: Respirable
12 hydroxycostodogonojo goid registion producto	TWA: 10 mg/m ³ Form: Total dust ACGIH TLV (United States).
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and	TWA: 10 mg/m ³ Form: Inhalable particle
hexamethylenediamine	TWA: 10 mg/m ³ , (inhalable dust) Form: Respirable particle
ethylbenzene	ACGIH TLV (United States, 1/2022). Ototoxicant. Notes:
	Substances for which there is a Biological Exposure Index or
	Indices 2002 Adoption.
	TWA: 20 ppm 8 hours.

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Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of 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	ires
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 antistatic 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	:
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.

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SECTION 9: Physical and chemical properties

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

<u>Appearance</u>							
Physical state	: Liquid.						
Colour	Brown.						
Odour	Characteristic.						
Odour threshold	: Not available.						
Melting point/freezing point	 May start to solidify a on data for the follow -70.25°C (-94.5°F) 						
Initial boiling point and boiling range	>37.78°C						
Flammability	: Not available.						
Upper/lower flammability or explosive limits	: Greatest known rang light aromatic)	je: Lower:	1.4% L	Jpper: 7.6% (\$	Solvent r	naphtha (p	etroleum),
Flash point	: Closed cup: 34°C						
Auto-ignition temperature	: Ingredient name		°C	°F		Method	
	zineb (ISO)		149	300.2			
pH Viscosity Solubility(ies)	 Not applicable. insolu Kinematic (40°C): >2 		ter.	-			
Media	Result						
cold water	Not soluble						
Cold water Partition coefficient: n-octanol/	Not soluble						
Cold water Partition coefficient: n-octanol/ water	Not soluble Not applicable.	Vapor	ur Press	ure at 20°C	Vap	oour press	sure at 50°C
Cold water Partition coefficient: n-octanol/ water	Not soluble	Vapou mm Hg	1	ure at 20°C Method	Vap mm Hg	oour press	sure at 50°C
Cold water Partition coefficient: n-octanol/ water	Not soluble Not applicable.	-	1	+	mm		sure at 50°C Method
Fold water Partition coefficient: n-octanol/ water /apour pressure	Not soluble Not applicable. Ingredient name	mm Hg 15.75 :: 1.7 (4-m	kPa 2.1 nethylper	Method	mm Hg	kPa	Method
cold water Partition coefficient: n-octanol/ vater /apour pressure	Not soluble Not applicable. Ingredient name Impredient name	mm Hg 15.75 :: 1.7 (4-m	kPa 2.1 nethylper	Method	mm Hg	kPa	Method
Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	Not soluble Not applicable. Ingredient name Impredient nampredient nampredient name	mm Hg 15.75 :: 1.7 (4-m outyl aceta	kPa 2.1 nethylper ate	Method ntan-2-one) V	mm Hg Veighted	kPa average:	Method
Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density	Not soluble Not applicable. Ingredient name Impredient nampredient nampredient name	mm Hg 15.75 :: 1.7 (4-m outyl aceta :: 4.1 (Air not explos	kPa 2.1 nethylper tte = 1) (1, sive, but	Method Intan-2-one) V 2,4-trimethylk	mm Hg Veighted	kPa average:	Method
Partition coefficient: n-octanol/water Partition coefficient: n-octanol/water /apour pressure Evaporation rate Relative density /apour density Explosive properties	Not soluble Not applicable. Ingredient name Imgredient namgredient namgredient name	mm Hg 15.75 :: 1.7 (4-m outyl aceta :: 4.1 (Air not explos iir is possi	kPa 2.1 aethylper ate = 1) (1, sive, but ble.	Method ntan-2-one) V 2,4-trimethylk the formation	mm Hg Veighted	kPa average:	Method
Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties	 Not soluble Not applicable. Ingredient name Ingredient name<	mm Hg 15.75 :: 1.7 (4-m outyl aceta :: 4.1 (Air not explos iir is possi	kPa 2.1 aethylper ate = 1) (1, sive, but ble.	Method ntan-2-one) V 2,4-trimethylk the formation	mm Hg Veighted	kPa average:	Method
	 Not soluble Not applicable. Ingredient name Ingredient name<	mm Hg 15.75 :: 1.7 (4-m outyl aceta :: 4.1 (Air not explos iir is possi	kPa 2.1 aethylper ate = 1) (1, sive, but ble.	Method ntan-2-one) V 2,4-trimethylk the formation	mm Hg Veighted	kPa average:	Method
Øld water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Vapour density Explosive properties Oxidising properties article characteristics	Not soluble Not applicable. Ingredient name Imgredient namo Imgredient name <td>mm Hg 15.75 :: 1.7 (4-m outyl aceta :: 4.1 (Air not explos iir is possi</td> <td>kPa 2.1 aethylper ate = 1) (1, sive, but ble.</td> <td>Method ntan-2-one) V 2,4-trimethylk the formation</td> <td>mm Hg Veighted</td> <td>kPa average:</td> <td>Method</td>	mm Hg 15.75 :: 1.7 (4-m outyl aceta :: 4.1 (Air not explos iir is possi	kPa 2.1 aethylper ate = 1) (1, sive, but ble.	Method ntan-2-one) V 2,4-trimethylk the formation	mm Hg Veighted	kPa average:	Method

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SECTION	10:	Stability	and	reactivity
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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% cumene	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat -	3492 mg/kg	-
		Female		
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	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with 1,3-benzenedimethanamine and hexamethylenediamine	mists			
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Oils, pine	LD50 Dermal	Rabbit	5 g/kg	-
	LD50 Oral	Rat	2.1 g/kg	-
copper oxide	LD50 Oral	Rat	>2000 mg/kg	-
copper	LC50 Inhalation Dusts and	Rat	>5.11 mg/l	4 hours
••	mists		J	
p-mentha-1,4(8)-diene	LD50 Oral	Rat	4390 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Conclusion/Summary

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SECTION 11: Toxicological information

Skin

: 00371224

: There are no data available on the mixture itself.

Eyes

Code

- 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	•		

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 toxi	<u>city (single exposure)</u>

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

Product/ingredient name	Result
Oils, pine	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely : Not available.

routes of exposure

Potential acute health effects	
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion	: 📕 armful 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 phy	sical, chemical and toxicological characteristics

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Inhalation	Adverse symptoms may include the following: nausea or vomiting neadache drowsiness/fatigue dizziness/vertigo unconsciousness	
Ingestion	Adverse symptoms may include the following: stomach pains	
Skin contact	Adverse symptoms may include the following: pain or irritation redness dryness cracking plistering may occur	
Eye contact	Adverse symptoms may include the following: pain watering redness	
Delayed and immediate effe	as well as chronic effects from short and long-term exposure	
<u>Short term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effe		
Not available.		
Conclusion/Summary	Not available.	
General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/o dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	
Carcinogenicity	May cause cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	
Other information	Not available.	

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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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	EC50 3.2 mg/l	Daphnia	48 hours
	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 - <i>Daphnia</i>	21 days
		magna (Water flea)	,
copper	Acute LC50 810 ppb	Fish	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ydrocarbons, C9, aromatics > 0.1% cumene	-	75 % - Readily - 28 days	-	-
4-methylpentan-2-one 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	83 % - Readily - 28 days 9 % - Not readily - 29 days	-	-
Conclusion/Summary	Conclusion/Summary : There are no data available on the mixture itself.			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
	-	-	Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
P osin	1.9 to 7.7	-	High
4-methylpentan-2-one	1.9	-	Low
zineb (ISO)	1.3	-	Low
12-hydroxyoctadecanoic acid, reaction products	>6	-	High
with 1,3-benzenedimethanamine and			
hexamethylenediamine			
p-mentha-1,4(8)-diene	4.47	-	High

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SECTION 12: Ecological information

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

12.5 Results of PBT and vPvB assessment

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

12.6 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 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	: Yes.

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	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

	ADR/RID	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, zinc oxide)	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
Tunnel code IMDG IATA	 (D/E) The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The environmentally hazardous substance mark may appear if required by other transportation
14.6 Special pre	regulations. utions for : Transport within user's premises: always transport in closed containers that are
user	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	oulk : Not applicable.

instruments

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Restricted to professional users.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

Ozone depleting substances (1005/2009/EU)

Not listed.

Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Code : 00371224	Date of issue/Date of revision : 21 October 2023
15.2 Chomical safety : No Chemical Safety Assessment has been carried out. assessment SECTION 16: Other information Fundates information that has changed from previously issued version. : ATE = Acute Toxicity Estimate Abbreviations and acronyms : ATE = Acute Toxicity Estimate CIP < Classification. Labelling and Packaging Regulation [Regulation (EC) No. 12/2/2008] DNEL = Derived No Effect Concentration Full text of abbreviated H : F225 Highly flammable liquid and vapour. H320 Harmful if swallowed. H330 H340 May cause an allergids kin reaction. H317 H316 Causes serious eye initiation. H336 H331 Causes serious eye initiation. H332 H335 May cause drowsiness or dizziness. H336 H330 Causes serious eye initiation. H332 H335 May cause drowsiness or dizzines. H341 H340 May cause drowsiness or dizzines. H341 H330 May cause drowsines or dizzines. H341 H341 Toxic to aquatic life with long lasting effects. H411 H355 May cause and aucit life with long lasting effects. H411 H410 Very tox	SIGMA SAILADVANCE RX	3ROWN
assessment SECTION 16: Other information Indicates information that has changed from previously issued version. Abbroviations and acronyms : ATE - Acute Toxicity Estimate CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement - CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number Full text of abbreviated H : F225 Highly flammable liquid and vapour. H322 Highly flammable liquid and vapour. H324 Flammable liquid and vapour. H325 Highly flammable liquid and vapour. H326 Hammuli if swallowed. H330 May cause drowse ye dranage. H319 Causes serious eye dranage. H319 Causes arenous arenous eye dranage. H319 Causes arenous arenous eye dranage. H319 Causes arenous arenous frammation. H321 Harmful if swallowed. H331 May cause daranage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting affects.	SECTION 15: Regula	atory information
Indicates information that has changed from previously issued version. Abbreviations and acronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Level Full text of abbreviated H : F225 Highly flammable liquid and vapour. H320 Harmful if swallowed and enters airways. H315 Causes serious eye dramage. H314 May be fatal if swallowed and enters airways. H315 Causes serious eye dramage. H316 Causes serious eye dramage. H317 May cause an allergic skin reaction. H318 Causes serious eye dramage. H320 Harmful if inhaled. H335 Suspected of causing cancer. H336 May cause drowsiness or dizziness. H351 Suspected of causing effects. H410 Very toxic to aquatic life with long lasting effects. H410 Very toxic to aquatic life. H411 Way cause angl alsting harmitul effects aquatic life. H412 Harmful to aquatic life with long lasting effects. H413 Way		: No Chemical Safety Assessment has been carried out.
Abbreviations and acronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number Full text of abbreviated H Full text of abbreviated H : P225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful f swallowed. H302 Harmful finhaled. H310 Causes serious eye inflation. H311 May cause an altergic skin reaction. H311 Causes serious eye inflation. H335 May cause drowsiness or dizeness. H335 May cause drowsiness or dizeness. H336 May cause drowsiness or dizeness. H335 May cause droussing and update life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause drouse ling harmful effects to aquatic life. Full text of classifications : Fourte Tox. 4 ACUTE TOXICIT - Category 4 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	SECTION 16: Other	information
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statements H226 Flämmable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed. H305 Causes skin irritation. H315 Causes serious eye intration. H316 Causes serious eye intration. H317 May cause an allergic skin reaction. H318 Causes serious eye intration. H323 Harmful if inhaled. H335 May cause drowsiness or dizziness. H350 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause drowsiness or dizzines. H410 Very toxic to aquatic life. H411 Voric to aquatic life. H411 Very toxic to aquatic life. H412 Harmful to aquatic life. H413 May cause long lasting affects. H414 Very toxic to aquatic life. EUH066 Repeated exposure may cause skin dryness or cracking. Full text of classifications I f(CLP/GHS) Kcute Tox. 4 ACUTE TOXICITY - Category 4 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		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
[CLP/GHS]Aquatic Acute 1SHORT-TERM (ACUTE) ÅQÚATIC HAZARD - Category 1Aquatic Chronic 1LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 4LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4Asp. Tox. 1ASPIRATION HAZARD - Category 1Carc. 1BCARCINOGENICITY - Category 1Carc. 2CARCINOGENICITY - Category 1Carc. 2CARCINOGENICITY - Category 2Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 2FLAMMABLE LIQUIDS - Category 3Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1BSKIN SENSITISATION - Category 1Skin Sens. 1BSKIN SENSITISATION - Category 1Skin Sens. 1BSPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2STOT RE 2STOT SE 3SPECIFIC TARGET ORGAN TOXICITY - SINGLEEXPOSURE - Category 3HistoryDate of issue/ Date of: 21 October 2023		 H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H329 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H350 May cause cancer. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.
Date of issue/ Date of : 21 October 2023 revision	[CLP/GHS]	Aquatic Acute 1SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1Aquatic Chronic 1LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1Aquatic Chronic 2LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2Aquatic Chronic 3LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Aquatic Chronic 4LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3Aquatic Chronic 4LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4Asp. Tox. 1ASPIRATION HAZARD - Category 1Carc. 1BCARCINOGENICITY - Category 1BCarc. 2CARCINOGENICITY - Category 2Eye Dam. 1SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1Eye Irrit. 2SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2Flam. Liq. 3FLAMMABLE LIQUIDS - Category 3Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITISATION - Category 1Skin Sens. 1BSKIN SENSITISATION - Category 1BSTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATEDEXPOSURE - Category 2STOT SE 3
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		: 22 May 2021

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878			
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SIGMA SAILADVA	NCE RX BROWN		
SECTION 16	: Other information		
Prepared by	: EHS		
Version	: 11		
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