SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

: 3 July 2024

Version

: 11.01

undertaking 1.1 Product identifier Product name : SIGMA SAILADVANCE RX REDBROWN Product code : 00371223 Other means of identification Not available. 1.2 Relevant identified uses of the substance or mixture and uses advised against Product use : Professional applications, Used by spraying. Use of the substance/ : Antifouling products mixture : Antifouling products

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

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 Paint Saudi Arabia Ltd. 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] Flam. 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

Code : 00371223		Date of issue/Date of revision	: 3 July 2024
SIGMA SAILADVANCE RX F	REDBROWN		
SECTION 2: Hazards	identification		
Hazard pictograms			
Signal word	: Danger		
Hazard statements	: Flammable liquid a Harmful if swallowe May cause an aller Causes serious eye May cause drowsin May cause cancer.	ed. gic skin reaction. e damage.	
Precautionary statements			
Prevention		oves, protective clothing and eye or face pro sparks, open flames and other ignition sour onment.	
Response	: Collect spillage.		
Storage	: Store in a well-vent	ilated place. Keep container tightly closed.	
Disposal	international regula	s and container in accordance with all local, tions. P391, P403 + P233, P501	regional, national and
Hazardous ingredients	: dicopper oxide Hydrocarbons, C9, rosin 4-methylpentan-2-c zineb (ISO) Oils, pine p-mentha-1,4(8)-die		
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 profes	ssional users.	
Special packaging requiren	<u>nents</u>		
Containers to be fitted with child-resistant fastenings	: Not applicable.		
Tactile warning of danger	: Not applicable.		
2.3 Other hazards			
Product meets the criteria for PBT or vPvB	: This mixture does r	not contain any substances that are assess	ed to be a PBT or a vPvI
Other hazards which do not result in classification	: Prolonged or repea	ted contact may dry skin and cause irritatio	n.

Code

e : 00371223

Date of issue/Date of revision

: 3 July 2024

SIGMA SAILADVANCE RX REDBROWN

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
	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]
aromatics > 0.1% cumene	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥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]
	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]
	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]
	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]
	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≥1.0 - ≤4.6	Skin Sens. 1, H317 STOT SE 3, H335	-	[1]
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]
	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	3/18

 Code
 <th::00371223</th>
 Date of issue/Date of revision
 : 3 July 2024

 SIGMA SAILADVANCE RX
 REDBROWN

SECTION 3: Composition/information on ingredients

-			•		
	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>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effe	<u>xts</u>
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	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sym	utoms

 Code
 <th::00371223</th>
 Date of issue/Date of revision
 : 3 July 2024

 SIGMA SAILADVANCE RX
 REDBROWN

SECTION 4: First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: 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

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	I 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 halogenated compounds 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.

Code : 00371223

- SIGMA SAILADVANCE RX REDBROWN
- Date of issue/Date of revision
- : 3 July 2024

SECTION 6: Accidental 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, an if water includes the state of the material and allows in an expression water.

	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	: See Section 1 for emergency contact information.

See Section 13 for additional waste treatment information.

See Section 8 for information on appropriate personal protective equipment.

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

sections

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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
Code : 00371223	Date of issue/Date of revision	: 3 July 2024		
SIGMA SAILADVANCE RX REDBROWN				
SECTION 7: Handling and storage				

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

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
dicopper oxide	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [copper fume] TWA: 0.2 mg/m ³ 8 hours. Form: fumes ACGIH TLV (United States, 7/2023). [copper fume] TWA: 0.2 mg/m ³ 8 hours. Form: Fume
rosin	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). Skin sensitiser. Inhalation sensitiser.
	ACGIH TLV (United States, 7/2023). [resin acids] Skin sensitiser. Inhalation sensitiser.
	TWA: 0.001 mg/m³, (as total Resin acids) 8 hours. Form: Inhalable fraction
zinc oxide	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m ³ 8 hours. Form: fumes STEL: 10 mg/m ³ 15 minutes. Form: fumes Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 10 mg/m ³ 15 minutes. Form: measured as respirable fraction of the aerosol and fume TWA: 2 mg/m ³ 8 hours. Form: measured as respirable fraction of the aerosol and fume ACGIH TLV (United States, 7/2023). Notes: Respirable fraction; see Appendix C, paragraph C. ACGIH 2003 Adoption STEL: 10 mg/m ³ 15 minutes. Form: Respirable fraction
4-methylpentan-2-one	TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). TWA: 82 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 307 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes.
	English (GB) United Arab Emirates 7/18

2020/878	
Code : 00371223	Date of issue/Date of revision : 3 July 2024
SIGMA SAILADVANCE RX REDBROWN	
diiron trioxide	Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 75 ppm 15 minutes. TWA: 205 mg/m ³ 8 hours. STEL: 307 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 7/2023). Notes: Substances for which there is a Biological Exposure Index or Indices STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. Abu Dhabi - OSHAD - Occupational air quality threshold limit
	 values (United Arab Emirates, 7/2016). TWA: 5 mg/m³ 8 hours. Form: measured as respirable fraction of the aerosol Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 5 mg/m³ 8 hours. ACGIH TLV (United States, 7/2023). Notes: Refers to Appendix B Substances of Variable Composition. Respirable fraction; see Appendix C, paragraph C. TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
1,2,4-trimethylbenzene	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [trimethyl benzene (mixed isomers)] TWA: 123 mg/m ³ 8 hours. TWA: 25 ppm 8 hours. ACGIH TLV (United States, 7/2023). TWA: 10 ppm 8 hours.
calcium carbonate	ACGIH TLV (United States). TWA: 3 mg/m ³ Form: Respirable
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine ethylbenzene	TWA: 10 mg/m ³ Form: Total dust ACGIH TLV (United States). TWA: 10 mg/m ³ Form: Inhalable particle TWA: 3 mg/m ³ , (inhalable dust) Form: Respirable particle Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 543 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m ³ 8 hours. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). STEL: 125 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. STEL: 543 mg/m ³ 15 minutes. TWA: 434 mg/m ³ 15 minutes. TWA: 434 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 7/2023). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption. TWA: 20 ppm 8 hours.
procedures Standard EN 689 by inhalation to o strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as the following: European O (Workplace atmospheres - Guidance for the assessment of exposure chemical agents for comparison with limit values and measurement ean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and c) European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical ince to national guidance documents for methods for the determination postances will also be required.
	English (GB) United Arab Emirates 8/18

Conforms to Regulation (E 2020/878	C) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
Code : 00371223	Date of issue/Date of revision : 3 July 2024
SIGMA SAILADVANCE RX	REDBROWN
8.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measured	
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	the second s
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physic	cal and chemical propertie
<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Brownish-red.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	:

es

Code : 00371223 SIGMA SAILADVANCE RX REE	BROWN	Date of	issue/I	Date of revision	on	: 3 Jul	y 2024
SECTION 9: Physical a		perties					
	May start to solidify on data for the follo -70.44°C (-94.8°F)						
Initial boiling point and boiling range	: >37.78°C						
Flammability	: Not available.	Not available.					
Upper/lower flammability or explosive limits	: Greatest known ran light aromatic)	Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum),					
Flash point	: Closed cup: 34°C						
Auto-ignition temperature	: Ingredient name		°C	°F		Method	
	zineb (ISO)		149	300.2			
Decomposition temperature pH Viscosity Solubility(ies)	: Not applicable. inso	 Stable under recommended storage and handling conditions (see Section 7). Not applicable. insoluble in water. Kinematic (40°C): >21 mm²/s 					
Media	Result	Result					
cold water	Not soluble	Not soluble					
Partition coefficient: n-octano water	/ : Not applicable.						
Vapour pressure	: Ingredient name	: Vapor		our Pressure at 20°C		Vapour pressure at 50°C	
	ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	methylpentan-2-one	15.75128	2.1				
Evaporation rate	: Highest known valu 1.61compared with			ntan-2-one) V	Veighted	average:	•
Relative density	: 1.67						
Vapour density	: Highest known valu 3.67 (Air = 1)	e: 4.1 (Air	= 1) (1	,2,4-trimethylb	enzene).	Weighte	ed average:
Explosive properties		 The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible. 					
Oxidising properties	: Product does not pr	esent an o	xidizing	hazard.			
Particle characteristics							

No additional information.

SECTION 10: Stabil	ity 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.
	English (GB) United Arab Emirates 10/18

٦

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878				
Code : 00371223	Date of issue/Date of revision : 3 July 2024			
SIGMA SAILADVANCE RX REE	DBROWN			
SECTION 10: Stability and reactivity				
	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 :	Depending on conditions, decomposition products may include the following materials:
decomposition products	carbon oxides nitrogen oxides sulfur oxides halogenated compounds 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 - Female	3492 mg/kg	-
rosin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	7600 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	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 products with 1,3-benzenedimethanamine and hexamethylenediamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
·	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 mists	Rat	>5.11 mg/l	4 hours
p-mentha-1,4(8)-diene	LD50 Oral	Rat	4390 mg/kg	-

Irritation/Corrosion

Conclusion/Summary Skin

: There are no data available on the mixture itself.

Eyes

: There are no data available on the mixture itself.

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

Sensitisation

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

English (GB)	United Arab Emirates	
--------------	----------------------	--

11/18

Code : 00371223 Date of issue/Date of revision : 3 July 2024 SIGMA SAILADVANCE RX REDBROWN

SECTION 11: Toxicological information

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxic	ity (single exposure)

<u>Specific target organ toxicity (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
Hydrocarbons, 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

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

Produ	ct/ingredient name	Result
Hydrocarbons, C9, aroma Oils, pine p-mentha-1,4(8)-diene	atics > 0.1% cumene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	: Not available.	
Potential acute health ef	fects	
Inhalation	: Can cause central nervous syste dizziness.	em (CNS) depression. May cause drowsiness or
Ingestion	: Harmful if swallowed. Can caus	e central nervous system (CNS) depression.
Skin contact	: Defatting to the skin. May cause reaction.	e skin dryness and irritation. May cause an allergic skin
Eye contact	: Causes serious eye damage.	
Symptoms related to the	physical, chemical and toxicologica	<u>characteristics</u>
Inhalation	: Adverse symptoms may include nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	the following:
Ingestion	: Adverse symptoms may include stomach pains	the following:

Code : 00371223		Date of issue/Date of revision	: 3 July 2024
SIGMA SAILADVANCE RX	REDBROWN		
SECTION 11: Toxico	ological informa	tion	
Skin contact	: Adverse symptoms pain or irritation redness dryness cracking blistering may occ	s may include the following: ur	
Eye contact	: Adverse symptom pain watering redness	s may include the following:	
Delayed and immediate eff	<u>ects as well as chroni</u>	c effects from short and long-term expos	<u>sure</u>
Short term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	S: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	S: Not available.		
Potential chronic health eff	fects		
Not available.			
Conclusion/Summary	: Not available.		
General		ated contact can defat the skin and lead to i sensitized, a severe allergic reaction may oc w levels.	
Carcinogenicity	: May cause cancer	. Risk of cancer depends on duration and le	evel of exposure.
Mutagenicity	: No known significa	ant effects or critical hazards.	
Reproductive toxicity	: No known significa	ant 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.

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 - Daphnia	48 hours
	Fresh water	magna - Neonate	
	Chronic NOEC 0.017 mg/l	Algae	72 hours
	Fresh water	5	
	English (GB) United Ar	ab Emirates	13/18

Code : 00371223	Date of issue/Date of	revision : 3 July	2024
SIGMA SAILADVANCE RX REDBROWN			
SECTION 12: Ecological information			
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days
copper	Acute LC50 810 ppb Chronic EC10 8.1 µg/l	Fish Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	96 hours 21 days

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

roduct/ingredient name	Test	Result	Dose	Inoculum
ydrocarbons, C9, aromatics 0.1% cumene	-	75 % - Readily - 28 days	-	-
2-hydroxyoctadecanoic acid, action products with 3-benzenedimethanamine	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle	83 % - Readily - 28 days 9 % - Not readily - 29 days	-	-
nd hexamethylenediamine	Closed Bottle	a available on the mixture itself.		

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C9, aromatics > 0.1% cumene 4-methylpentan-2-one	-	-	Readily Readily

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

Code : 00371223

SIGMA SAILADVANCE RX REDBROWN

Date of issue/Date of revision : 3

: 3 July 2024

SECTION 12: Ecological information

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	taken when ha Empty contain residues may o Do not cut, we	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. ers or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container. Id or grind used containers unless they have been cleaned thoroughly bid dispersal of spilt material and runoff and contact with soil, waterways, wers.	

SECTION 14: Transport information

	ADR/RID	I	MDG	IATA	
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	III	Ш		111	
English (GB) United Arab Emirates 15/18					15/18

2020/878 Code : 00371223		Date of issue/Date o	Date of issue/Date of revision : 3 July 2024				
SIGMA SAILADVANCE							
SECTION 14: Transport information							
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.				
Marine pollutant substances	Not applicable.	dicopper oxide)	Not applicable.				
Solution State St	e environmentally hazaro kg. /E) e marine pollutant mark i	dous substance mark is not require is not required when transported in dous substance mark may appear i	-				
user 14.7 Transport in bulk according to IMO instruments	event of an ac	cident or spillage.	rting the product know what to do in the				
	egulatory informa	ation					
-	d environmental regulat lo. 1907/2006 (REACH)	ions/legislation specific for the	substance or mixture				
	substances subject to a	uthorisation					
Annex XIV	-						
None of the compon	ents are listed.						
Substances of very	<u> high concern</u>						
None of the compon- Annex XVII - Restrict on the manufacture placing on the mark and use of certain dangerous substant mixtures and article	rtions : Restricted to p , aet ces,	professional users.					
	ternational regulations						
Explosive precursor Ozone depleting sub Not listed.	s : Not applicable ostances (1005/2009/EU						
15.2 Chemical safety	: No Chemical S	Safety Assessment has been carrie	ed out.				

Code : 00371223		Date of issue/Date of revision	: 3 July 2024
SIGMA SAILADVANCE RX	REDBROWN		
SECTION 16: Other	information		
Indicates information that	has changed from previously	/ issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived No Eff	abelling and Packaging Regulation [Reg ect Level specific Hazard statement Effect Concentration	gulation (EC) No.
Full text of abbreviated H statements	H226Flammable lidH302Harmful if swaH304May be fatal iH315Causes skin iH317May cause arH318Causes serioH319Causes serioH324Harmful if inhH335May cause reH336May cause drH350May cause drH351Suspected ofH373May cause daH400Very toxic to aH410Very toxic to aH411Toxic to aquaH412Harmful to aqH413May cause lo	f swallowed and enters airways. rritation. n allergic skin reaction. us eye damage. us eye irritation. aled. spiratory irritation. owsiness or dizziness. ancer. causing cancer. amage to organs through prolonged or t).
Full text of classifications [CLP/GHS]	Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 4 Asp. Tox. 1 Carc. 1B Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT RE 2	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATION LONG-TERM (CHRONIC) AQUATION LONG-TERM (CHRONIC) AQUATION LONG-TERM (CHRONIC) AQUATION ASPIRATION HAZARD - Category 11 CARCINOGENICITY - Category 11 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRFINE SERIOUS EYE DAMAGE/EYE IRFINAMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2	C HAZARD - Category 1 TIC HAZARD - Category 1 TIC HAZARD - Category 2 TIC HAZARD - Category 3 TIC HAZARD - Category 4 7 TIC HAZARD - Category 4 7 TIC HAZARD - Category 4 7 TIC HAZARD - Category 4 7 TIC HAZARD - Category 2 7 3 - Category 2 1 TIB TICITY - REPEATED
<u>History</u> Date of issue/ Date of revision	: 3 July 2024		
Date of previous issue	: 21 October 2023		
Prepared by	: EHS		
Version	: 11.01		
<u>Disclaimer</u>			

Code : 00371223

SIGMA SAILADVANCE RX REDBROWN

Date of issue/Date of revision : 3 July 2024

SECTION 16: Other information

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