# SAFETY DATA SHEET

Date of issue/Date of revision

: 18 May 2021

Version : 3



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

1.1 Product identifier	
Product name	: SIGMA SAILADVANCE RX(N) REDBROWN
Product code	: 00384242
Product type	: Liquid.
Other means of identificat	ion
Not available.	
1.2 Relevant identified uses	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 o	f the safety data sheet
Sigma Paint Saudi Arabia Lt PO Box 7509	d.
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 : 00966 138473100 extn 1001 number

## **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 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 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

SIGMA SAILADVANCE RX(N) REDBROWN         SECTION 2: Hazards identification         Hazard pictograms       :         iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Code : 00384242	No. 1907/2006 (REACH), Annex II Date of issue/Date of revision : 18 May 2021
SECTION 2: Hazards identification         Hazard pictograms       :		, ,
Hazard pictograms : Even in the set of the	· · ·	
Signal word       :       Danger         Hazard statements       :       Ffammable liquid and vapour. May cause an allericy iskin reaction. Causes serious eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.         Precautionary statements       .         Prevention       :       Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.         Response       :       Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Storage       :       Effore in a well-ventilated place. Keep container tightly closed.         Disposal       :       Not applicable.         Hazardous ingredients       :       floopper oxide Hydrocarbons, C9, aromatics rosin 4-methylpentan-2-one zineb (ISO)         Supplemental label elements       :       Not applicable.         Annox XVII - Restrictions use of cortain dangerous substances, mixtures and articles       :       Not applicable.         Special packaging requirements       :       Not applicable.         Containers to be fitted with child-resistant fastenings       :       Not applicable.         2.3 Other hazards       :       Not applicable.         Product meets the criteria for PBT or vPvB       :       Not	SECTION 2: Hazards	identification
Hazard statements       : Farmable liquid and vapour. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory initiation. Very toxic to aquatic life with long lasting effects.         Precautionary statements	Hazard pictograms	
May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.         Precautionary statements         Prevention       : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.         Response       : Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact tenses, if present and easy to do. Continue rinsing.         Storage       : Sore in a well-ventilated place. Keep container tightly closed.         Disposal       : Not applicable.         Hazardous ingredients       : Mcopper oxide Hydrocarbons, C9, aromatics rosin         A-methylpentan-2-one zineb (ISO)       : Not applicable.         Supplemental label elements       : Not applicable.         Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted       : Not applicable.         2.3 Other hazards       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB of PBT or vPvB         Other hazards which do not result in classification       : Prolonged or repeated contact may dry skin and cause irritation.	Signal word	: Danger
Prevention       : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.         Response       : Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Storage       : Store in a well-ventilated place. Keep container tightly closed.         Disposal       : Not applicable.         Hazardous ingredients       : ficopper oxide Hydrocarbons, C9, aromatics rosin 4-methylpentan-2-one zineb (ISO)         Supplemental label       : Not applicable.         elements       : Not applicable.         Annex XVII - Restrictions       : Not applicable.         glocing on the market and use of cartain dangerous stubstances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactlie warning of danger       : Not applicable.         2.3 Other hazards       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB for PBT or vPvB         Other hazards which do not result in classification       : Prolonged or repeated contact may dry skin and cause irritation.	Hazard statements	May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.
surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.         Response       : Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         Storage       : Storage         Disposal       : Not applicable.         Hazardous ingredients       : Broep oxide         Hydrocarbons, C9, aromatics rosin       4-methylpentan-2-one         zinsin       4-methylpentan-2-one         zinsin       : Not applicable.         elements       : Not applicable.         Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements       : Not applicable.       : Not applicable.         Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         2.3 Other hazards       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB for PBT or vPvB         Other hazards which do rot resoult in classification       : Prolonged or repeated contact may dry skin and cause irritation.	Precautionary statements	
Storage       :       Store in a well-ventilated place. Keep container tightly closed.         Disposal       :       Not applicable.         Hazardous ingredients       :       offcopper oxide Hydrocarbons, C9, aromatics rosin 4-methylpentan-2-one zineb (ISO)         Supplemental label elements       :       Not applicable.         Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       :       Not applicable.         Special packaging requirements fastenings       :       Not applicable.       :         Tactile warning of danger       :       Not applicable.       :         2.3 Other hazards       :       Not applicable.       :         Product meets the criteria for PBT or vPvB       :       This mixture does not contain any substances that are assessed to be a PBT or a vPvB other hazards which do not result in classification       :       Prolonged or repeated contact may dry skin and cause irritation.	Prevention	surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to
Disposal       : Not applicable.         Hazardous ingredients       : Efcopper oxide Hydrocarbons, C9, aromatics rosin	Response	
Hazardous ingredients       : If copper oxide Hydrocarbons, C9, aromatics rosin 4-methylpentan-2-one zineb (ISO)         Supplemental label elements       : Not applicable.         Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles       : Not applicable.         Special packaging requirements Containers to be fitted with child-resistant fastenings       : Not applicable.         Tactile warning of danger       : Not applicable.         Product meets the criteria for PBT or vPvB       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB         Other hazards which do not result in classification       : Prolonged or repeated contact may dry skin and cause irritation.	Storage	: Store in a well-ventilated place. Keep container tightly closed.
Hydrocarbons, C9, aromatics         rosin         4-methylpentan-2-one         zineb (ISO)         Supplemental label       : Not applicable.         elements         Annex XVII - Restrictions       : Not applicable.         on the manufacture,         placing on the market and         use of certain dangerous         substances, mixtures and         articles         Special packaging requirements         Containers to be fitted       : Not applicable.         with child-resistant         fastenings         Tactile warning of danger       : Not applicable.         2.3 Other hazards         Product meets the criteria       : This mixture does not contain any substances that are assessed to be a PBT or a vPvB         Other hazards which do       : Prolonged or repeated contact may dry skin and cause irritation.	Disposal	: Not applicable.
elements Annex XVII - Restrictions in the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted in Not applicable. Containers to be fitted in Not applicable. Containers to be fitted in the child-resistant fastenings Tactile warning of danger in Not applicable. Containers the criteria for PBT or vPvB Other hazards which do not result in classification in the container is the criteria in the criteria in the container is the criteria in the criteria in the criteria in the container is the criteria in	Hazardous ingredients	Hydrocarbons, C9, aromatics rosin 4-methylpentan-2-one
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Containers to be fitted with child-resistant fastenings Tactile warning of danger: Not applicable.2.3 Other hazards Product meets the criteria for PBT or vPvB: 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 vPvBOther hazards which do not result in classification: Prolonged or repeated contact may dry skin and cause irritation.	on the manufacture, placing on the market and use of certain dangerous substances, mixtures and	: Not applicable.
with child-resistant fastenings Tactile warning of danger.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 vPvBOther hazards which do not result in classification: Prolonged or repeated contact may dry skin and cause irritation.	Special packaging requirem	<u>ients</u>
<ul> <li>2.3 Other hazards</li> <li>Product meets the criteria for PBT or vPvB</li> <li>Other hazards which do not result in classification</li> <li>This mixture does not contain any substances that are assessed to be a PBT or a vPvB</li> <li>Prolonged or repeated contact may dry skin and cause irritation.</li> </ul>	with child-resistant	: Not applicable.
Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvBOther hazards which do not result in classification: Prolonged or repeated contact may dry skin and cause irritation.	Tactile warning of danger	: Not applicable.
for PBT or vPvB         Other hazards which do       : Prolonged or repeated contact may dry skin and cause irritation.         not result in classification	2.3 Other hazards	
not result in classification	Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB
SECTION 3: Composition/information on ingredients		: Prolonged or repeated contact may dry skin and cause irritation.
	SECTION 3: Compos	ition/information on ingredients

3.2 Mixtures

: Mixture

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## **SECTION 3: Composition/information on ingredients**

			<b>Classification</b>	
Product/ingredient name	Identifiers	% by weight	Regulation (EC) No. 1272/2008 [CLP]	Туре
₫ſcopper oxide	REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)	[1]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
rosin	REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7	≥10 - ≤25	Skin Sens. 1, H317	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥5.0 - ≤10	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=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 STOT SE 3, H335 EUH066	[1] [2]
zineb (ISO)	EC: 235-180-1 CAS: 12122-67-7 Index: 006-078-00-2	≥5.0 - ≤10	Skin Sens. 1, H317 STOT SE 3, H335	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1] [2]
copper(II) oxide	REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6	≤1.0	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1)	[1]
copper	REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8	<1.0	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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## **SECTION 3: Composition/information on ingredients**

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 5 or use recognised skin cleanser. Do NOT use solvents or thinners. : If swallowed, seek medical advice immediately and show the container or label. Keep Ingestion person warm and at rest. Do NOT induce vomiting. : No action shall be taken involving any personal risk or without suitable training. If it is **Protection of first-aiders** suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sy</u>	mptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
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	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.

Conforms to Regulation (EC)	No. 1907/2006 (REAC	H), Annex II	
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<b>SECTION 5: Firefigh</b>	ting measures		
5.1 Extinguishing media			
Suitable extinguishing media	: Use dry chemical, (	CO <sub>2</sub> , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water je	t.	
5.2 Special hazards arising f	rom the substance or I	mixture	
Hazards from the substance or mixture	a fire or if heated, a risk of a subsequen lasting effects. Fire	nd vapour. Runoff to sewer may create fire pressure increase will occur and the conta it explosion. This material is very toxic to a water contaminated with this material mus- ng discharged to any waterway, sewer or d	ainer may burst, with the aquatic life with long st be contained and
Hazardous combustion products	: Decomposition proc carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides oxides of lead	ducts may include the following materials:	
5.3 Advice for firefighters			
Special precautions for fire-fighters	there is a fire. No a training. Move cont	e scene by removing all persons from the v action shall be taken involving any personal tainers from fire area if this can be done wi xposed containers cool.	l risk or without suitable
Special protective equipment for fire-fighters	apparatus (SCBA) v for fire-fighters (incl	wear appropriate protective equipment an with a full face-piece operated in positive p uding helmets, protective boots and gloves ill provide a basic level of protection for che	ressure mode. Clothing s) conforming to European

## **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, 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.

<b>Conforms to Regul</b>	ation (EC) No. 1907/2	006 (REACH), Annex II
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SECTION 6: A	Accidental relea	se measures
Large spill	explosic sewers, treatme combus place in waste d	k if without risk. Move containers from spill area. Use spark-proof tools and on-proof equipment. Approach the release from upwind. Prevent entry into water courses, basements or confined areas. Wash spillages into an effluent nt plant or proceed as follows. Contain and collect spillage with non- tible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and container for disposal according to local regulations. Dispose of via a licensed isposal contractor. Contaminated absorbent material may pose the same as the spilt product.
6.4 Reference to of sections	See See	ction 1 for emergency contact information. ction 8 for information on appropriate personal protective equipment. ction 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
7.3 Specific end use(s)	

See Section 1.2 for Identified uses.

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

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## **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	t name	Exposure limit values	
rosin		ACGIH TLV (United States, 3/2020). Skin sensitiser. Inha sensitiser.	lation
4-methylpentan-2-one		EU OEL (Europe, 10/2019). STEL: 208 mg/m <sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.	
xylene		EU OEL (Europe, 10/2019). Absorbed through skin. STEL: 442 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.	
Recommended monitoring procedures	atmosphere or bi the ventilation or protective equipr following: Europ assessment of ex values and meas atmospheres - G exposure to cher atmospheres - G measurement of	ontains ingredients with exposure limits, personal, workplace piological monitoring may be required to determine the effective other control measures and/or the necessity to use respirator ment. Reference should be made to monitoring standards, su bean Standard EN 689 (Workplace atmospheres - Guidance for exposure by inhalation to chemical agents for comparison with surement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assess mical and biological agents) European Standard EN 482 (Wo General requirements for the performance of procedures for the f chemical agents) Reference to national guidance documents determination of hazardous substances will also be required.	y ich as the or the limit e ment of rkplace e
.2 Exposure controls			
Appropriate engineering controls	other engineering recommended of	lequate ventilation. Use process enclosures, local exhaust ver g controls to keep worker exposure to airborne contaminants or statutory limits. The engineering controls also need to keep oncentrations below any lower explosive limits. Use explosior ment.	below any gas,
ndividual protection measure	<u>es</u>		
Hygiene measures	eating, smoking Appropriate tech Contaminated we contaminated clo	rearms and face thoroughly after handling chemical products, and using the lavatory and at the end of the working period. iniques should be used to remove potentially contaminated clo ork clothing should not be allowed out of the workplace. Was othing before reusing. Ensure that eyewash stations and safe se to the workstation location.	othing. h
Eye/face protection Skin protection	: Chemical splash	n goggles and face shield.	
Hand protection	worn at all times necessary. Cons during use that th noted that the tim glove manufactu	ant, impervious gloves complying with an approved standard s when handling chemical products if a risk assessment indicat sidering the parameters specified by the glove manufacturer, he gloves are still retaining their protective properties. It shoul ne to breakthrough for any glove material may be different for urers. In the case of mixtures, consisting of several substance of the gloves cannot be accurately estimated. When prolonged	tes this is check Id be different es, the
	(breakthrough tin	ted contact may occur, a glove with a protection class of 6 me greater than 480 minutes according to EN 374) is recomm contact is expected, a glove with a protection class of 2 or hig	

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<b>SECTION 8: Exposu</b>	re	controls/personal protection		
		(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	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.		
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		

## **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

.1 Information on basic physic	ai anu chemicai prope	i lies						
Appearance								
Physical state	: Liquid.							
Colour	: Brownish-red.	: Brownish-red.						
Ddour	: Aromatic. [Slight]	Aromatic. [Slight]						
Ddour threshold	: Not available.							
ЭΗ	: insoluble in water.							
Melting point/freezing point	: May start to solidify on data for the follo -69.65°C (-93.4°F)		•	•	•	,		
Initial boiling point and boiling range	: >37.78°C							
Flash point	: Closed cup: 27°C							
Evaporation rate		: Highest known value: 1.7 (4-methylpentan-2-one) Weighted average: 1.54compared with butyl acetate						
Flammability (solid, gas)	: liquid							
Jpper/lower flammability or explosive limits	: Greatest known ra light aromatic)	Greatest known range: Lower: 1.4% Upper: 7.6% (Solvent naphtha (petroleum),						
/apour pressure	:	Vapo	ur Press	sure at 20°C	Vap	our pres	sure at 50°C	
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	4-methylpentan-2-one	15.75	2.1					
Vapour density	: Highest known valu 3.7 (Air = 1)	ue: 4.1 (Ai	r = 1) (1	,2,4-trimethylb	enzene).	Weight	ed average:	

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SECTION 9: Physical ar	nd ch	emical proper	ties			
Relative density	: 1.6	6				
Solubility(ies)	: Inso	Insoluble in the following materials: cold water.				
Partition coefficient: n-octanol/ water	: Not	applicable.				
Auto-ignition temperature	: Ing	gredient name	°C	°F	Method	
	zine	eb (ISO)	149	300.2		
Decomposition temperature	: Sta	ble under recommen	ded storage and	handling conditi	ons (see Section 7).	
Viscosity	: Kin	ematic (40°C): >21 m	nm²/s			
Viscosity	: > 1	> 100 s (ISO 6mm)				
Explosive properties	: Pro	Product does not present an explosion hazard.				
		roduct does not present an explosion hazard. roduct does not present an oxidizing hazard.				

#### 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	1340 mg/kg	-
Hydrocarbons, C9, aromatics	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 <sup>3</sup>	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	12.3 mg/l	4 hours
	English (GB) U	Inited Arab E	mirates	9/15

onforms to Regulation (EC) No. 19		LACII, A							
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ECTION 11: Toxicologic	al infor	mation							
		LD50 Dermal			Rabbit >5000			-	
zineb (ISO)		050 Oral 050 Oral			Rat	Rat 2.0			-
xylene		D50 Derma	al	Rabbit		>2000 m 1.7 g/kg	y/ry	-	
LD50 Oral					Rat		4.3 g/kg		-
copper oxide LD50 Oral copper LC50 Inhal			tion Dusts a	and	Rat Rat		>2000 m >5.11 m		- 4 hours
		ists			, tat				1 nouro
Conclusion/Summary : The	ere are no o	data availa	able on the	mixtu	re itsel	f.			
Acute toxicity estimates									
Roi	ite						ATE \	value	
Øral						62 mg/kg			
Dermal Inhalation (vapours)					13672 142.78	1.95 mg 3 mg/l	/kg		
Inhalation (dusts and mists)					11.71				
rritation/Corrosion									
Product/ingredient name		Res	ult	Sp	ecies	Score	Ехр	osure	Observatio
xylene	Ski	n - Modera	ate irritant	Rabl	oit	-	24 hours	500 mg	-
Conclusion/Summary								_	
	re are no d	ata availal	ble on the n	nixtur	e itself				
			ble on the n			-			
· ·			ble on the n						
Sensitisation				in a constant	0 110011	•			
Product/ingredient n	ame		Route	of		Spec	ies		Result
			exposi						
zíneb (ISO)			skin	skin		Guinea pig Sens		Sensitisi	ng
Conclusion/Summary									
Skin : The	ere are no o	data availa	able on the	mixtu	re itsel	f.			
Respiratory : The	ere are no o	data availa	able on the	mixtu	re itsel <sup>:</sup>	f.			
Mutagenicity									
	ere are no o	data availa	able on the	mixtu	re itsel	f.			
<u>Carcinogenicity</u>									
	ere are no o	data availa	able on the	mixtu	re itsel	f.			
Reproductive toxicity									
Conclusion/Summany Th	ere are no o	data availa	hle on the i	mixtu	re itsel	f.			
<u>Teratogenicity</u>						_			
Teratogenicity Conclusion/Summary : The	ere are no o		able on the	mixtu	re itsel	f.			
Teratogenicity Conclusion/Summary : The Specific target organ toxicity (sing	ere are no o l <mark>le exposu</mark>		able on the		1				
Teratogenicity Conclusion/Summary : The	ere are no o l <mark>le exposu</mark>				F	f. Route of xposure		Target	organs
Teratogenicity Conclusion/Summary : The Specific target organ toxicity (sing	ere are no o l <mark>le exposu</mark>		able on the Catego	<b>gory</b> ory 3	F	Route of	e Res	piratory ti	act irritation
Teratogenicity Conclusion/Summary : The Specific target organ toxicity (sing Product/ingredient	ere are no o l <mark>le exposu</mark>		able on the Catego Catego Catego	<b>gory</b> ory 3 ory 3	F	Route of	Res	piratory ti cotic effe	act irritation
Teratogenicity Conclusion/Summary : The Specific target organ toxicity (sing Product/ingredient Fydrocarbons, C9, aromatics 4-methylpentan-2-one	ere are no o l <mark>le exposu</mark>		Able on the Catego Catego Catego Catego Catego	ory 3 ory 3 ory 3 ory 3	F	Route of	Res Nar Res	piratory to cotic effect piratory to	ract irritation ots ract irritation
Teratogenicity Conclusion/Summary : The Specific target organ toxicity (sing Product/ingredient	ere are no o l <mark>le exposu</mark>		able on the Catego Catego Catego	gory ory 3 ory 3 ory 3 ory 3 ory 3	F	Route of	Res Nar Res Res	piratory ti cotic effe piratory ti piratory ti	act irritation
Teratogenicity Conclusion/Summary : The Specific target organ toxicity (sing Product/ingredient Fydrocarbons, C9, aromatics 4-methylpentan-2-one zineb (ISO) xylene	ere are no o l <mark>le exposu</mark> name	<u>re)</u>	Able on the Catego Catego Catego Catego Catego Catego	gory ory 3 ory 3 ory 3 ory 3 ory 3	F	Route of	Res Nar Res Res	piratory ti cotic effe piratory ti piratory ti	ract irritation cts ract irritation ract irritation
Teratogenicity         Conclusion/Summary       : The         Specific target organ toxicity (sing         Product/ingredient         Hydrocarbons, C9, aromatics         4-methylpentan-2-one         zineb (ISO)	ere are no o l <mark>le exposu</mark> name	<u>re)</u>	Able on the Catego Catego Catego Catego Catego Catego	gory ory 3 ory 3 ory 3 ory 3 ory 3	F	Route of	Res Nar Res Res	piratory ti cotic effe piratory ti piratory ti	ract irritation cts ract irritation ract irritation

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Product	ingredient name	Result	
Hydrocarbons, C9, aromatic	s	ASPIRATION HAZARD - Category 1	
xylene	: Not available.	ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure			
Potential acute health effect	<u>ets</u>		
Inhalation	: May cause respiratory irrita	tion.	
Ingestion	: No known significant effects	s or critical hazards.	
Skin contact	: Defatting to the skin. May or reaction.	cause skin dryness and irritation. May cause an allergic ski	
Eye contact	: Causes serious eye damag	e.	
Symptoms related to the p	hysical, chemical and toxicolo	gical characteristics	
Inhalation	: Adverse symptoms may inc respiratory tract irritation coughing	slude the following:	
Ingestion	: Adverse symptoms may include the following: stomach pains		
Skin contact	: Adverse symptoms may inc pain or irritation redness dryness cracking blistering may occur	sude the following:	
Eye contact	: Adverse symptoms may inc pain watering redness	slude the following:	
Delayed and immediate eff	ects as well as chronic effects	from short and long-term exposure	
Short term exposure			
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 ef	iects		
Not available.			
Conclusion/Summary	: Not available.		
General		act can defat the skin and lead to irritation, cracking and/oi d, a severe allergic reaction may occur when subsequently	
Carcinogenicity	: No known significant effects	s or critical hazards.	
Mutagenicity	: No known significant effects	s or critical hazards.	
Reproductive toxicity	: No known significant effects	s 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.

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## **SECTION 12: Ecological information**

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#### 12.1 Toxicity

Code

Result	Species	Exposure
LC50 0.003 mg/l	Fish	96 hours
EC50 3.2 mg/l	Daphnia	48 hours
LC50 9.2 mg/l	Fish	96 hours
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	3	
Acute LC50 >179 mg/l	Fish	96 hours
Acute LC50 810 ppb	Fish	96 hours
	LC50 0.003 mg/l EC50 3.2 mg/l LC50 9.2 mg/l Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water Chronic NOEC 0.017 mg/l Fresh water Acute LC50 >179 mg/l	LC50 0.003 mg/lFishEC50 3.2 mg/lDaphniaLC50 9.2 mg/lFishAcute EC50 0.17 mg/lAlgaeAcute EC50 0.481 mg/lDaphnia - DaphniaFresh watermagna - NeonateChronic NOEC 0.017 mg/lAlgaeFresh waterAlgaeAcute LC50 >179 mg/lFish

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Øydrocarbons, C9, aromatics 4-methylpentan-2-one		75 % - Readily - 28 days 83 % - Readily - 28 days	-	-

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

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

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Posin	1.9 to 7.7	-	high
4-methylpentan-2-one	1.9	-	low
zineb (ISO)	1.3	-	low
xylene	3.12	7.4 to 18.5	low

#### 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

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

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

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

#### 13.1 Waste treatment methods

**Product** 

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ECTION 13: Dispo	sal considerations
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 catalog	<u>ue (EWC)</u>
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	<ul> <li>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.</li> </ul>

## **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN 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		
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 ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for	4	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.

	English (GB)	United Arab Emirates
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## SECTION 14: Transport information

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**14.7 Transport in bulk** according to IMO instruments

Code

: Not applicable.

## **SECTION 15: Regulatory information**

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

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

Other national and international regulations.

Ozone depleting substances (1005/2009/EU)

Not listed.

**15.2 Chemical safety** 

: No Chemical Safety Assessment has been carried out.

assessment

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

	0				
Abbreviations and		cute Toxicity Estimate			
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC)				
	1272/200	•			
		Derived No Effect Level			
		ement = CLP-specific Hazard statement			
	-	Predicted No Effect Concentration			
	RRN = R	EACH Registration Number			
Full text of abbreviated H	<b>H</b> 225	Highly flammable liquid and vapour.			
statements	H226	Flammable liquid and vapour.			
	H302	Harmful if swallowed.			
	H304	May be fatal if swallowed and enters airways.			
	H312	Harmful in contact with skin.			
	H315	Causes skin irritation.			
	H317	May cause an allergic skin reaction.			
	H318	Causes serious eye damage.			
	H319	Causes serious eye irritation.			
	H332	Harmful if inhaled.			
	H335	May cause respiratory irritation.			
	H336	May cause drowsiness or dizziness.			
	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.			
	EUH066	Repeated exposure may cause skin dryness or cracking.			
Full text of classifications					

[CLP/GHS]

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II					
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SECTION 16: Other	r information				
	: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3			
<u>History</u> Date of issue/ Date of	: 18 May 2021				
revision					
Date of previous issue	: 18 November 2019				
Prepared by	: EHS				
Version	: 3				

#### **Disclaimer**

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.