SAFETY DATA SHEET

United Arab Emirates

: 1.06

Date of issue/Date of revision

: 17 December 2024 Version

| SECTION 1: Identification of the substance/mixture and of the company undertaking | | |
|---|------------------------------|--|
| 1.1 Product identifier | | |
| Product name | : SIGMA SAILADVANCE RX BROWN | |
| Product code | : 000001188846 | |
| Other means of identif | ication | |
| 00444778 | | |
| | | |

1.2 Relevant identified uses of the substance or mixture and uses advised against

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

1.3 Details of the supplier of the safety data sheet

| Sigma 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. 2, H351

STOT SE 3, H335 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

2.2 Label elements

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| SIGMA SAILADVANCE RX BF | DWN | | | | |
| SECTION 2: Hazards identification | | | | | |
| Hazard pictograms | | | | | |
| Signal word | : Danger | | | | |
| Hazard statements | Flammable liquid and vapour. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects. | | | | |
| Precautionary statements | , | | | | |
| Prevention | : Wear protective gloves, protective clothing and 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. | | | | |
| 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 | | | | |
| Supplemental label elements | : Repeated exposure may cause skin dryness or cracking. | | | | |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. | | | | |
| Special packaging requirem | ents | | | | |
| 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 vPvB | | | | |
| 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

| 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: 128601-23-0 | ≥10 - ≤25 | Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 | EUH066: C ≥ 20% | [1] |
| rosin | REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 | ≥10 - ≤25 | Skin Sens. 1, H317 | - | [1] [2] |
| zinc oxide | REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 | ≥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 - ≤5.0 | Skin Sens. 1, H317 STOT SE 3, H335 | - | [1] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | ≥1.0 - ≤5.0 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| 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 - ≤2.4 | 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] |
| Terpineol | REACH #: 01-2119553062-49 | ≥1.0 - ≤4.4 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 | - | [1] |
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SECTION 3: Composition/information on ingredients

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|------------------|--|------|---|-------------------------------------|-----|
| | EC: 232-268-1 CAS: 8000-41-7 | | Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 | | |
| copper(II) oxide | REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6 | ≤1.0 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 100 M [Chronic] = 10 | [1] |
| copper | REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 | <1.0 | Aquatic Acute 1, H400 Aquatic Chronic 3, H412 | M [Acute] = 1 | [1] |
| | | | See Section 16 for the full text of the H statements declared above. | | |

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

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | : Check for and remove any contact lenses. Immediately flush eyes with running water 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 effects | <u>5</u> |
|--------------------------------|---|
| Eye contact | : Causes serious eye damage. |
| Inhalation | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. |
| Ingestion | : Harmful if swallowed. Can cause central nervous system (CNS) depression. |
| Over-exposure signs/sympto | oms |

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| SECTION 4: First a | aid measures |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| Ingestion | : Adverse symptoms may include the following: stomach pains |
| 4.3 Indication of any imm | ediate medical attention and special treatment needed |
| Notes to physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |

| 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 | from 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. |

| nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides oxides of lead | Hazardous combustion products | sulfur oxides halogenated compounds metal oxide/oxides |
|---|----------------------------------|--|
|---|----------------------------------|--|

5.3 Advice for firefighters 5.3 Advice for firefighters 5.3 Advice for firefighters Fromptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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| SECTION 5: Firefight | |
| Special protective | : Fire-fighters should wear appropriate protective equipment and self-contained breathing |
| equipment for fire-fighters | apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
| SECTION 6: Acciden | al release measures |
| 6.1 Personal precautions, pro | tective equipment and emergency procedures |
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |
| 6.3 Methods and material for | containment and cleaning up |
| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. |
| 6.4 Reference to other sections | : See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |

STION 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

| handle until all safety precautions have been read and understood. Do not get in e or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release the environment. Use only with adequate ventilation. Wear appropriate respirator ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative ma from a compatible material, kept tightly closed when not in use. Store and use awa from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-span tools. Take precautionary measures against electrostatic discharges. Empty conta |
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| SECTION 7: Handli | ing and storage |
| | retain product residue and can be hazardous. Do not reuse container. |
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| 7.2 Conditions for safe storage, including any incompatibilities | : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See 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 | |
|---|---|
| dicopper oxide | Ministry of Labor (France, 9/2023) [cuivre (fumées)] |
| | TWA 8 hours: 0.2 mg/m ³ . Form: Fume. |
| Hydrocarbons, C9, aromatics < 0.1% cumene | Ministry of Labor (France, 9/2023) [hydrocarbures en C6-C12] |
| | TWA 8 hours: 1000 mg/m³. Form: Vapour. |
| | STEL 15 minutes: 1500 mg/m³. Form: Vapour. |
| rosin | Ministry of Labor (France, 9/2023) |
| | TWA 8 hours: 0.1 mg/m ³ (expressed as formaldehyde). |
| 4-methylpentan-2-one | Ministry of Labor (France, 9/2023) Carc 2. |
| | TWA 8 hours: 20 ppm. |
| | TWA 8 hours: 83 mg/m ³ . |
| | STEL 15 minutes: 208 mg/m³. |
| | STEL 15 minutes: 50 ppm. |
| xylene | Ministry of Labor (France, 9/2023) [xylènes, isomères mixtes, |
| | purs] Absorbed through skin. |
| | STEL 15 minutes: 442 mg/m ³ . |
| | STEL 15 minutes: 100 ppm. |
| | TWA 8 hours: 221 mg/m ³ . |
| | TWA 8 hours: 50 ppm. |

| Product/ingredient name | Exposure limit values | | | | | |
|-------------------------|---|--|--|--|--|--|
| dicopper oxide rosin | Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper fume] TWA 8 hours: 0.2 mg/m ³ . Form: fumes. ACGIH TLV (United States, 7/2023) [copper fume] TWA 8 hours: 0.2 mg/m ³ . Form: Fume. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) Sensitiser, Keep exposure as low as possible. | | | | | |
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| zinc oxide | ACGIH TLV (United States, 7/2023) [resin acids] Skin sensitiser , Inhalation sensitiser. TWA 8 hours: 0.001 mg/m³ (as total Resin acids). Form: Inhalable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) STEL 15 minutes: 10 mg/m³. Form: measured as respirable fraction of the aerosol and fume. TWA 8 hours: 2 mg/m³. Form: measured as respirable fraction of |
| | the aerosol and fume. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 5 mg/m ³ . Form: fumes. STEL 15 minutes: 10 mg/m ³ . Form: fumes. ACGIH TLV (United States, 7/2023) TWA 8 hours: 2 mg/m ³ . Form: Respirable fraction. STEL 15 minutes: 10 mg/m ³ . Form: Respirable fraction. |
| 4-methylpentan-2-one | Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3. TWA 8 hours: 82 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 307 mg/m³. STEL 15 minutes: 75 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 75 ppm. TWA 8 hours: 205 mg/m³. STEL 15 minutes: 307 mg/m³. TWA 8 hours: 50 ppm. ACGIH TLV (United States, 7/2023) A3. TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm. |
| 1,2,4-trimethylbenzene | Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [trimethyl benzene (mixed isomers)] TWA 8 hours: 123 mg/m ³ . TWA 8 hours: 25 ppm. ACGIH TLV (United States, 7/2023) A4. TWA 8 hours: 10 ppm. |
| diiron trioxide | Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 5 mg/m³. 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 8 hours: 5 mg/m³. ACGIH TLV (United States, 7/2023) A4. |
| xylene | TWA 8 hours: 5 mg/m ³ . Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)] A4. STEL 15 minutes: 651 mg/m ³ . STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m ³ . TWA 8 hours: 100 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. |
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| | | TWA 8 hours: 434 mg/m ³ . STEL 15 minutes: 651 mg/m ³ . TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) [p-xyle containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm. | ne and mixtures | | | |
| 12-hydroxyoctadecanoic acid, r with 1,3-benzenedimethanamin hexamethylenediamine copper(II) oxide | | ACGIH TLV (United States) TWA: 10 mg/m³. Form: Inhalable particle. TWA: 3 mg/m³ (inhalable dust). Form: Respirable particle. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [copper fume] TWA 8 hours: 0.2 mg/m³. Form: fumes. ACGIH TLV (United States, 7/2023) [copper fume] TWA 8 hours: 0.2 mg/m³. Form: Fume. | | | | |
| copper | | Abu Dhabi - OSHAD - Occupational air quivalues (United Arab Emirates, 7/2016) [cop TWA 8 hours: 1 mg/m³ (as Cu). Form: dust: Abu Dhabi - OSHAD - Occupational air quivalues (United Arab Emirates, 7/2016) [cop TWA 8 hours: 0.2 mg/m³. Form: fumes. Cabinet Decree (12) of 2006 Regarding Reprotection of Air from Pollution (United Ara TWA 8 hours: 0.2 mg/m³. Form: fumes. TWA 8 hours: 1 mg/m³. Form: dusts. ACGIH TLV (United States, 7/2023) [copper TWA 8 hours: 1 mg/m³ (as Cu). Form: Dust ACGIH TLV (United States, 7/2023) [copper TWA 8 hours: 0.2 mg/m³. Form: Fume. | pper dusts and mists] s and mists. ality threshold limit pper fume] gulation Concerning rab Emirates, 5/2006) er dusts and mists] is and mists. | | | |
| 4-methylpentan-2-one | | DOL BEI (South Africa, 3/2021) BEI: 1 mg/l, methyl isobutyl ketone [in urine] shift. |]. Sampling time: end of | | | |
| xylene | | DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 g/g creatinine, methylhippuric acid end of shift. | [in urine]. Sampling time: | | | |
| Recommended monitoring : procedures | Standard EN 68 by inhalation to strategy) Europ application and biological agents requirements fo agents) Referen | Id be made to monitoring standards, such as the 9 (Workplace atmospheres - Guidance for the chemical agents for comparison with limit value bean Standard EN 14042 (Workplace atmospheres of procedures for the assessment of exposes) European Standard EN 482 (Workplace atmospheres) European Standard EN 482 (Workplace atmospheres) the performance of procedures for the measures to national guidance documents for method abstances will also be required. | assessment of exposure es and measurement eres - Guide for the sure to chemical and nospheres - General rement of chemical | | | |
| 3.2 Exposure controls | | | | | | |
| | other engineerin recommended of | dequate ventilation. Use process enclosures, long controls to keep worker exposure to airborne or statutory limits. The engineering controls als concentrations below any lower explosive limits poment. | e contaminants below any o need to keep gas, | | | |
| Individual protection measure | <u>s</u> | | | | | |
| Hygiene measures : | eating, smoking Appropriate tech Contaminated w contaminated cl | rearms and face thoroughly after handling cher and using the lavatory and at the end of the wo nniques should be used to remove potentially c vork clothing should not be allowed out of the w othing before reusing. Ensure that eyewash st se to the workstation location. | orking period. ontaminated clothing. orkplace. Wash | | | |
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| Eye/face protection Skin protection | : | 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 | : 1 | 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 | l | 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 | t | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

| <u>Appearance</u> | | | | |
|---|--|-----------------|-----------------|------------------------|
| Physical state | : Liquid. | | | |
| Colour | : Brown. | | | |
| Odour | : Aromatic. [Slight] | | | |
| Odour threshold | : Not available. | | | |
| Melting point/freezing point | : Not determined. | | | |
| Initial boiling point and boiling range | : >37.78°C | | | |
| Flammability | : Not determined. There are | no data availat | ole on the mixt | ure itself. |
| Upper/lower flammability or explosive limits | : Not available. | | | |
| Flash point | : 🕅osed cup: 31°C | | | |
| Auto-ignition temperature | : Ingredient name | °C | °F | Method |
| | zineb (ISO) | 149 | 300.2 | |
| Decomposition temperature pH | Stable under recommended Not applicable. insoluble in | - | nandling condi | tions (see Section 7). |

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SECTION 9: Physical and chemical properties

| Viscosity | : | Dynamic (room tem Kinematic (room ter Kinematic (40°C): > | nperature) | | | | | |
|--------------------------------------|-------|---|-------------------------|----------|---------------|-------------------------|------------|------------|
| Viscosity | : | > 100 s (ISO 6mm) | | | | | | |
| Solubility(ies) | : | | | | | | | |
| Media | | Result | | | | | | |
| cold water | | Not soluble | | | | | | |
| Partition coefficient: n-octai water | nol/: | Not applicable. | | | | | | |
| Vapour pressure | : | | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
| | | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | 4-methylpentan-2-one | 15.75128 | 2.1 | | | | |
| Relative density | : | 1.66 | | | Į | | _ | |
| Explosive properties | : | The product itself is vapour or dust with a | • | | the formation | of an exp | olosible m | nixture of |
| Oxidising properties | : | Product does not pro | esent an o | xidizing | hazard. | | | |
| article characteristics | | | | | | | | |

9.2 Other information

Median particle size

No additional information.

SECTION 10: Stability and reactivity

: Not applicable.

| | - | |
|--|---|--|
| 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 halogenated compounds metal oxide/ oxides |

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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 mists | Rat | 3.34 mg/l | 4 hours |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 500 mg/kg | - |
| Hydrocarbons, C9, aromatics < 0.1% | LD50 Dermal | Rabbit - | >2000 mg/kg | - |
| cumene | | Male, | | |
| | | Female | | |
| | LD50 Oral | Rat | 8400 mg/kg | - |
| rosin | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 7600 mg/kg | - |
| zinc oxide | LC50 Inhalation Dusts and | Rat | >5700 mg/m ³ | 4 hours |
| | mists | | _ | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| 4-methylpentan-2-one | LC50 Inhalation Vapour | Rat | 11 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 2.08 g/kg | - |
| zineb (ISO) | LD50 Oral | Rat | >2000 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| 12-hydroxyoctadecanoic acid, reaction | LC50 Inhalation Dusts and | Rat | 3.56 mg/l | 4 hours |
| products with 1,3-benzenedimethanamine | mists | | | |
| and hexamethylenediamine | | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| Terpineol | LD50 Oral | Rat | 4300 mg/kg | - |
| copper(II) oxide | LD50 Oral | Rat | >2000 mg/kg | - |
| copper | LC50 Inhalation Dusts and | Rat | >5.11 mg/l | 4 hours |
| | mists | | | |

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

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|---|------------------|-------|----------------------|-------------|
| xylene Terpineol | Skin - Moderate irritant Skin - Irritant | Rabbit Rabbit | - | 24 hours 500 mg - | - |

Conclusion/Summary

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Respiratory

Skin

Eyes

: There are no data available on the mixture itself.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|------------|-------------|
| (-) | skin | Guinea pig | Sensitising |
| | skin | Guinea pig | Sensitising |

Conclusion/Summary

| Skin | : | There are no data available on the mixture itself. |
|---------------------|---|--|
| Respiratory | : | There are no data available on the mixture itself. |
| <u>Mutagenicity</u> | | |
| Conclusion/Summary | : | There are no data available on the mixture itself. |

| Conforms 2020/878 | | ACH), Annex II, as amended by Commissio | n Regulation (EU) |
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| | | | |

Carcinogenicity

- **Conclusion/Summary** : There are no data available on the mixture itself.
- Reproductive toxicityConclusion/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 toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--|
| 5 | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

| Information on likely | 1 | Not available. |
|-------------------------------|-----|----------------|
| routes of exposure | | |
| Potential acute health effect | cts | |

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

| Conforms to Regulation (EC) 2020/878 | No. 1907/2006 (REACH), A | nnex II, as amended by Commission | n Regulation (EU) |
|--------------------------------------|---|---|--------------------|
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| SECTION 11: Toxicol | ogical information | | |
| Eye contact | : Adverse symptoms may pain watering redness | include the following: | |
| Delayed and immediate effe | <u>cts as well as chronic effe</u> | cts from short and long-term expos | sure |
| <u>Short term exposure</u> | | | |
| Potential immediate effects | : Not available. | | |
| Potential delayed effects | : Not available. | | |
| <u>Long term exposure</u> | | | |
| Potential immediate effects | : Not available. | | |
| Potential delayed effects | : Not available. | | |
| Potential chronic health effe | <u>cts</u> | | |
| Not available. | | | |
| Conclusion/Summary | : Not available. | | |
| General | | ontact can defat the skin and lead to in zed, a severe allergic reaction may oc ls. | |
| Carcinogenicity | : Suspected of causing ca exposure. | ncer. Risk of cancer depends on dura | ation and level of |
| Mutagenicity | : No known significant effe | ects or critical hazards. | |
| Reproductive toxicity | : No known significant effe | ects 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 | 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 | | |
| 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 magna (Water flea) | 48 hours |
| | English (GB) United Ara | b Emirates | 14/18 |

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| | | 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

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|---|---|------|----------|
| Hydrocarbons, C9, aromatics < 0.1% cumene 4-methylpentan-2-one I 2-hydroxyoctadecanoic acid, reaction products with I,3-benzenedimethanamine and hexamethylenediamine | - OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test | 78 % - 28 days 83 % - Readily - 28 days 9 % - Not readily - 29 days | - | - |

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

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--|---|---|
| Hydrocarbons, C9, aromatics < 0.1% cumene rosin 4-methylpentan-2-one zineb (ISO) xylene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine | 3.7 to 4.5 1.9 to 7.7 1.9 1.3 3.12 >6 | 10 to 2500 - - - 7.4 to 18.5 - | High High Low Low Low High |
| Terpineol | 2.6 | - | 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 Endocrine disrupting properties

English (GB) United Arab Emirates

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SECTION 12: Ecological information

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

: Yes.

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

European waste catalogue (EWC)

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

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 h Empty contai residues may Do not cut, w | I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. yeld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers. | |

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 | | |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | (dicopper oxide) | Not applicable. |
| | | English (GB) United A | Arab Emirates 16/18 |

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|-----------------|--|---|-----------------------------------|--|--|
| SIGMA SAILAD | SIGMA SAILADVANCE RX BROWN | | | | |
| SECTION | 14: Transpor | t information | | | |
| <u> </u> | • | I | 1 | | |
| Additional info | rmation | | | | |
| 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 environr regulations. | nentally hazardous substance mark may appear if re | equired by other transportation | | |
| 14.6 Special p | recautions for : | Transport within user's promises: always transport | ort in closed containers that are | | |
| user | | Transport within user's premises: always transport upright and secure. Ensure that persons transportin event of an accident or spillage. | | | |

| 14.7 Transport in bulk | : Not applicable. |
|------------------------|-------------------|
| according to IMO | |
| instruments | |

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. |
| Explosive precursors : Not applicable. |
| 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.
 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 statements

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| SIGMA SAILADVANCE RX B | ROWN |
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| | H225 Highly flammable liquid and vapour. 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. H329 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. 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. H412 Harmful to aquatic life with long lasting effects. |
| Full text of classifications [CLP/GHS] | H413May cause long lasting harmful effects to aquatic life.EUH066Repeated exposure may cause skin dryness or cracking.:Acute Tox. 4Aquatic Acute 1ACUTE TOXICITY - Category 4Aquatic Chronic 1LONG-TERM (ACUTE) 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. 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 1 |
| <u>History</u> Date of issue/ Date of revision Date of previous issue Prepared by | STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 STOT SE 3 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 EXPOSURE - Category 3 : 17 December 2024 : 25 October 2024 : EHS : EHS |
| Version | : 1.06 |
| Disolaimar | |

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