SAFETY DATA SHEET

Date of issue/Date of revision : 22 November 2022 Version : 2.01



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

1.1 Product identifier

Product name : SIGMA ECOFLEET 530 BLUE

Product code : 00445160

Product type : Liquid.

Other means of identification

Not available.

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

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Antifouling products

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 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361d Aguatic Acute 1, H400

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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

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

2.2 Label elements

English (GB) United Arab Emirates 1/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 2: Hazards identification

Hazard pictograms









Signal word

: Danger

Hazard statements

: Flammable liquid and vapour. Harmful if swallowed or if inhaled.

Causes skin irritation.

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

Suspected of damaging the unborn child. 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Not applicable.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients

: dicopper oxide

rosin

5-methylhexan-2-one

4,5-dichloro-2-octyl-2H-isothiazol-3-one

1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene

Cashew, nutshell liq.

Supplemental label

elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe

spray or mist.

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

: Not applicable.

fastenings

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.

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| 3.2 Wilklures | . Mixture | | <u></u> | 1 | |
|--|--|-------------|--|--|---------|
| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
| øícopper 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] |
| 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] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥10 - ≤16 | 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 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [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] |
| 5-methylhexan-2-one | REACH #: 01-2119472300-51 EC: 203-737-8 CAS: 110-12-3 Index: 606-026-00-4 | ≥5.0 - ≤10 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Repr. 2, H361d (inhalation) | ATE [Inhalation (gases)] = 5000 ppm | [1] [2] |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8 | ≥1.0 - ≤3.6 | Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 | ATE [Oral] = 567 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 0.16 mg/l Skin Corr. 1, H314: C ≥ 5% Skin Irrit. 2, H315: 0.025% ≤ C < 5% Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: 0.025% ≤ C < 3% Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100 | [1] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 | ≥1.0 - ≤5.0 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] |
| | | English | (GB) United Arab E | mirates | 3/16 |

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 3: Composition/information on ingredients

| - | | | • | | |
|--|--|-------------|--|--|---------|
| | Index: 601-023-00-4 | | Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | | |
| copper(II) oxide | REACH #: 01-2119502447-44 EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6 | ≥1.0 - ≤5.0 | 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] |
| 1,3-bis[12-hydroxy- octadecamide-N- methylene]-benzene | REACH #: 01-2119962189-26 CAS: 911674-82-3 Index: 616-198-00-2 | <1.0 | Skin Sens. 1, H317 Aquatic Chronic 4, H413 | - | [1] [2] |
| Cashew, nutshell liq. | EC: 232-355-4 CAS: 8007-24-7 | <1.0 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 500 mg/ kg ATE [Dermal] = 1100 mg/kg | [1] |

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

Type

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label. Keep

person warm and at rest. Do NOT induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

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| English (GB) | United Arab Emirates | 4/16 |

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 4: First aid measures

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, 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.

Hazardous combustion

products

Decomposition products may include the following materials:

carbon oxides nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

English (GB) United Arab Emirates 5/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 5: Firefighting measures

Special precautions for fire-fighters

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

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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 nonemergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly

> English (GB) **United Arab Emirates** 6/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 7: Handling and storage

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 : Not available.

solutions

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---|---|
| ₫ícopper oxide | ACGIH TLV (United States, 1/2022). [Copper] |
| | TWA: 0.2 mg/m ³ 8 hours. Form: Fume |
| rosin | ACGIH TLV (United States, 1/2022). [resin acids] Skin sensitiser. |
| | Inhalation sensitiser. |
| | TWA: 0.001 mg/m³, (as total Resin acids) 8 hours. Form: Inhalable |
| | fraction |
| xylene | EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed |
| | through skin. |
| | STEL: 442 mg/m³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 221 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| 5-methylhexan-2-one | EU OEL (Europe, 1/2022). |
| | TWA: 95 mg/m³ 8 hours. |
| | TWA: 20 ppm 8 hours. |
| ethylbenzene | EU OEL (Europe, 1/2022). Absorbed through skin. |
| | STEL: 884 mg/m³ 15 minutes. |
| | STEL: 200 ppm 15 minutes. |
| | TWA: 442 mg/m³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| 1,3-bis[12-hydroxy-octadecamide-N-methylene]- | ACGIH TLV (United States). |
| | |

English (GB) United Arab Emirates 7/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 8: Exposure controls/personal protection

benzene TWA: 3 mg/m³, (Respirable fraction)

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection 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

Body protection

: butyl rubber

: 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.
Appropriate footwear and any additional skin protection measures should be selected

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.

English (GB) United Arab Emirates 8/16

: 00445160 Date of issue/Date of revision : 22 November 2022 Code

SIGMA ECOFLEET 530 BLUE

SECTION 8: Exposure controls/personal protection

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

Appearance

Physical state : Liquid. Colour : Blue.

Odour Characteristic. Not available. **Odour threshold**

Melting point/freezing point May start to solidify at the following temperature: -74°C (-101.2°F) This is based on

data for the following ingredient: 5-methylhexan-2-one. Weighted average: -87.42°C

(-125.4°F)

Initial boiling point and

boiling range

: >37.78°C

Flammability : Not available.

Upper/lower flammability or

explosive limits

: Greatest known range: Lower: 1.8% Upper: 9% (5-methylhexan-2-one)

Flash point Closed cup: 29°C

Auto-ignition temperature

°C °F Ingredient name **Method** 29H,31H-phthalocyaninato(2-)-N29, 356 672.8 EU A.16 N30,N31,N32 copper

Decomposition temperature

pН

Viscosity

: Stable under recommended storage and handling conditions (see Section 7).

Not applicable. insoluble in water. Kinematic (40°C): >21 mm²/s

Solubility(ies)

| Media | Result |
|--------------------------|-------------|
| <mark>ø</mark> old water | Not soluble |

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

| In our diam't a con- | Vapour Pressure at 20°C | | | Vapou | ır pressu | ure at 50°C |
|----------------------|-------------------------|-----|--------|----------|-----------|-------------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| ethylbenzene | 9.3 | 1.2 | | | | |

Evaporation rate Highest known value: 0.84 (ethylbenzene) Weighted average: 0.67compared with

butyl acetate

Relative density : 1.88

Vapour density Highest known value: 3.9 (Air = 1) (5-methylhexan-2-one). Weighted average:

3.77 (Air = 1)

: The product itself is not explosive, but the formation of an explosible mixture of **Explosive properties**

vapour or dust with air is possible.

Oxidising properties

Particle characteristics

: Product does not present an oxidizing hazard.

Median particle size : Not applicable.

English (GB) United Arab Emirates 9/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 9: Physical and chemical properties

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 halogenated compounds metal oxide/

oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------|---------|-------------------------|----------|
| dicopper oxide | LC50 Inhalation Dusts and | Rat | 3.34 mg/l | 4 hours |
| • • | mists | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 500 mg/kg | - |
| rosin | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 7600 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/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 | - |
| 5-methylhexan-2-one | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 8.14 g/kg | - |
| | LD50 Oral | Rat | 5657 mg/kg | - |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | LC50 Inhalation Dusts and | Rat | 0.16 mg/l | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rabbit | 3.9 g/kg | - |
| | LD50 Oral | Rat | 567 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| copper oxide | LD50 Oral | Rat | >2000 mg/kg | - |
| copper | LC50 Inhalation Dusts and | Rat | >5.11 mg/l | 4 hours |
| | mists | | | |
| Reaction products of | LC50 Inhalation Dusts and | Rat | >5.08 mg/l | 4 hours |
| 12-hydroxyoctadecanoic acid and | mists | | | |
| octadecanoic acid and | | | | |
| 1,3-phenylenedimethanamine | | | | |

English (GB) United Arab Emirates 10/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 11: Toxicological information

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

Irritation/Corrosion

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

Conclusion/Summary

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

Sensitisation

Conclusion/Summary

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

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

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

| Product/ingredient name | Maternal toxicity | Fertility | Developmental toxin | Species | Dose | Exposure |
|-------------------------|-------------------|-----------|---------------------|---------|-------------------------|----------|
| 5-methylhexan-2-one | - | - | Equivocal | Rabbit | Inhalation: 1250 ppm | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

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

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|--------------------------|-------------------|---|
| xylene 4,5-dichloro-2-octyl-2H-isothiazol-3-one | Category 3 Category 3 | - | Respiratory tract irritation Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|---|
| xylene ethylbenzene | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on likely : Not available.

routes of exposure

Potential acute health effects

Inhalation: Harmful if inhaled.Ingestion: Harmful if swallowed.

Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Eye contact : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

English (GB) United Arab Emirates 11/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 11: Toxicological information

Inhalation : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

pain or irritation redness dryness cracking

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Eye contact: Adverse symptoms may include the following:

pain watering redness

Delayed and immediate effects 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

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity: Suspected of damaging the unborn child.

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.

English (GB) United Arab Emirates 12/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|--|--------------------|----------|
| øicopper oxide | LC50 0.003 mg/l | Fish | 96 hours |
| zinc oxide | Acute EC50 0.17 mg/l | Algae | 72 hours |
| | Acute EC50 0.481 mg/l | Daphnia - Daphnia | 48 hours |
| | Fresh water | magna - Neonate | |
| | Chronic NOEC 0.017 mg/l | Algae | 72 hours |
| | Fresh water | | |
| 5-methylhexan-2-one | Acute LC50 159 mg/l | Fish | 96 hours |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | Acute EC50 267.368 μg/l | Algae - Nitzschia | 96 hours |
| | Marine water | pungens | |
| | Acute LC50 0.318 mg/l | Crustaceans - | 48 hours |
| | Marine water | Artemia sp. | 001 |
| | Acute LC50 0.0027 mg/l | Fish | 96 hours |
| | Fresh water | Alara Nitaaakia | 00 |
| | Chronic NOEC 19.789 µg/l | Algae - Nitzschia | 96 hours |
| | Marine water | pungens | 07 days |
| | Chronic NOEC 0.00056 mg/l Fresh water | Fish | 97 days |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh | Daphnia | 48 hours |
| | water | Dl | |
| | Chronic NOEC 1 mg/l Fresh | Daphnia - | - |
| | water | Ceriodaphnia dubia | 00 |
| copper | Acute LC50 810 ppb | Fish | 96 hours |
| Reaction products of 12-hydroxyoctadecanoic acid | Acute LC50 >100 mg/l | Fish | 96 hours |
| and octadecanoic acid and | | | |
| 1,3-phenylenedimethanamine | | | |

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|--|------|--|------|----------|
| 5 -methylhexan-2-one ethylbenzene | | 67 % - Readily - 28 days 79 % - Readily - 10 days | - | - |

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

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|-------------|-------------------------------|
| xylene 5-methylhexan-2-one ethylbenzene | - | - - - | Readily Readily Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|------------|-------------|-----------|
| <mark>r</mark> ∕sin | 1.9 to 7.7 | - | high |
| xylene | 3.12 | 7.4 to 18.5 | low |
| 5-methylhexan-2-one | 1.88 | - | low |
| ethylbenzene | 3.6 | 79.43 | low |
| Cashew, nutshell liq. | >4.78 | - | high |

12.4 Mobility in soil

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

Mobility : Not available.

inobility . Not available.

English (GB) United Arab Emirates 13/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste : Yes. European waste catalogue (EWC)

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

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | European waste catalogue (EWC) | |
|-------------------|--------------------------------|-----------------|
| Container | 15 01 06 | mixed packaging |

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|------------------------------------|---------|--------|--------|
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III |
| | | | |

English (GB) United Arab Emirates 14/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 14: Transport information

Yes. The environmentally 14.5 Environmental Yes Yes. hazards

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)

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **IMDG**

: The environmentally hazardous substance mark may appear if required by other transportation IATA

regulations.

14.6 Special precautions for

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

14.7 Transport 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.

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.

1272/20081

DNEL = Derived No Effect Level

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

English (GB) **United Arab Emirates** 15/16

Code : 00445160 Date of issue/Date of revision : 22 November 2022

SIGMA ECOFLEET 530 BLUE

SECTION 16: Other information

Full text of abbreviated H statements

: F225 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.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H330 Fatal if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

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.
 H413 May cause long lasting harmful effects to aquatic life.

EUH071 Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

: Acute Tox. 2 ACUTE TOXICITY - Category 2
Acute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Aquatic Chronic 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 2
Flam. Liq. 3
FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3
FLAMMABLE LIQUIDS - Category 3
Repr. 2
Skin Corr. 1
Skin CORROSION/IRRITATION - Category 1
Skin Irrit. 2
SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1
Skin Sens. 1A SKIN SENSITISATION - Category 1A

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED

EXPOSURE - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE

EXPOSURE - Category 3

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