SAFETY DATA SHEET



SeaMate NB

| Section 1. Identification | | | |
|---|---|--|--|
| GHS product identifier | : 丙烯酸硅烷自光滑防污漆(N) | | |
| Product code | : 28902 | | |
| Other means of identification | : Not available. | | |
| Product type | : Liquid. | | |
| Product description | : Paint. | | |
| Relevant identified uses of the substance or mixture and uses advised against Use in coatings - Professional use | | | |
| Supplier's details | : 佐敦涂料(张家港)有限公司 江苏省张家港保税区扬子江化学工业园长江路15号 215634 电话: +86 512 58937988 传真: +86 512 58937986 Jotun Coatings (Zhangjiagang) Co. Ltd No.15 Changjiang Road Jiangsu Yangtze River International Chemical Industry Park, Zhangjiagang Free Trade Zone, Jiangsu Province 215634 Tel: +86 512 58937988 Fax: +86 512 58937986 Jotun Paints (Malaysia) Sdn Bhd, Lot 7 Persiaran Perusahaan, Section 23 40300 SHAH ALAM, Selangor Darul Ehsan Malaysia Tel: +603 51235500 Fax: +603 51235500 | | |
| | SDSJotun@jotun.com | | |
| Emergency telephone number (with hours of operation) | : Jotun Coatings (Taiwan) Ltd. Co. Tel: +886 2 87705061 | | |

Section 2. Hazards identification

| Classification of the substance or mixture | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN SENSITISATION - Category 1 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 AQUATIC TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 1 |
|--|---|
|--|---|

| Date of issue/Date of revision : 26.06.2024 Date of previous issue : 25.06.2024 | Version : 1.06 1/15 |
|---|---------------------|
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Section 2. Hazards identification

| GHS label elements Hazard pictograms | |
|---|---|
| Signal word | : Danger. |
| Hazard statements | H226 - Flammable liquid and vapour. H302 + H332 - Harmful if swallowed or if inhaled. H313 - May be harmful in contact with skin. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. (nervous system) H410 - Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | |
| Prevention | P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapour or spray. P270 - Do not eat, drink or smoke when using this product. |
| Response | P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. |
| Storage | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool. |
| Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Other hazards which do not result in classification | : None known. |
| In compliance | : IMO Antifouling System Convention compliant AFS/CONF/26 + IMO MEPC.331(76). |
| | |

Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
|----------------------------------|------------------|
| Other means of identification | : Not available. |

| SeaMate NB | | | |
|---|-----------------------|--------------------|---------|
| Section 3. Composition/information on ingredients | | | |
| Product name | % (w/w) | CAS number | Туре |
| dicopper oxide | ≥25 - ≤50 | 1317-39-1 | [1] [2] |
| xylene | ≥10 - ≤25 | 1330-20-7 | [1] [2] |
| colophony | ≤10 | 8050-09-7 | [1] |
| ethylbenzene | <10 | 100-41-4 | [1] [2] |
| zineb | ≤5 | 12122-67-7 | [1] |
| copper pyrithione | <3 | 14915-37-8 | [1] |
| zinc oxide | ≤3 | 1314-13-2 | [1] |
| 1-methoxy-2-propanol | ≤3 | 107-98-2 | [1] [2] |
| 物品名稱 | % (w/w) | 化學文摘社登記號碼(CAS No.) | 類型 |
| 氧化亚铜 | ≥25 - ≤50 | 1317-39-1 | [1] [2] |
| 二甲苯 | ≥10 - ≤25 | 1330-20-7 | [1] [2] |
| 松香 | ≤10 | 8050-09-7 | [1] |
| 苯乙烷 | <10 | 100-41-4 | [1] [2] |
| 代森锌 | ≤ ⁵ | 12122-67-7 | [1] |
| 铜吡硫 | <3 | 14915-37-8 | [1] |
| 氧化鋅 (燻煙) | <u>≤</u> ³ | 1314-13-2 | [1] |
| 丙二醇甲醚 | ≤3 | 107-98-2 | [1] [2] |

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 and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. |
|-------------|---|
| Inhalation | : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. |

Section 4. First aid measures

| Skin contact | : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
|--------------|--|
| Ingestion | : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

| Most important symptoms/effects, acute and delayed | | |
|--|---|--|
| Potential acute health effect | <u>ets</u> | |
| Eye contact | : Causes serious eye damage. | |
| Inhalation | : Harmful if inhaled. May cause respiratory irritation. | |
| Skin contact | : May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. | |
| Ingestion | : Harmful if swallowed. | |
| <u>Over-exposure signs/symp</u> | <u>otoms</u> | |
| Eye contact | : Adverse symptoms may include the following: pain watering redness | |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations | |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness 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 | |
| Indication of immediate med | dical attention and special treatment needed, if necessary | |
| 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. | |
| 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. | |

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Firefighting measures

| Extinguishing media | |
|---|---|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| Specific hazards arising from the chemical | : 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 thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides |
| Special protective actions 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. |

Section 6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | o action shall be taken involving any personal risk or withou vacuate surrounding areas. Keep unnecessary and unprot ntering. Do not touch or walk through spilt material. Shut o p flares, smoking or flames in hazard area. Do not breathe rovide adequate ventilation. Wear appropriate respirator w adequate. Put on appropriate personal protective equipme | ected personnel from ff all ignition sources. vapour or mist. hen ventilation is |
|---|--|--|
| Environmental precautions | void dispersal of spilt material and runoff and contact with s nd sewers. Inform the relevant authorities if the product has ollution (sewers, waterways, soil or air). Water polluting ma the environment if released in large quantities. Collect spi | s caused environmental terial. May be harmful |
| Methods and material for con | nent and cleaning up | |
| Small spill | top leak if without risk. Move containers from spill area. Us splosion-proof equipment. Dilute with water and mop up if ternatively, or if water-insoluble, absorb with an inert dry mo opropriate waste disposal container. Dispose of via a licens ontractor. | water-soluble. aterial and place in an |
| Large spill | top leak if without risk. Move containers from spill area. Us oplosion-proof equipment. Approach the release from upwi- ewers, water courses, basements or confined areas. Wash fluent treatment plant or proceed as follows. Contain and op ombustible, absorbent material e.g. sand, earth, vermiculite and place in container for disposal according to local regulati ispose of via a licensed waste disposal contractor. Contain aterial may pose the same hazard as the spilt product. No nergency contact information and Section 13 for waste disp | nd. Prevent entry into spillages into an collect spillage with non- or diatomaceous earth ons (see Section 13). inated absorbent te: see Section 1 for |

Section 7. Handling and storage

| | - | - |
|--|---|--|
| Precautions for safe handling | g | |
| 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 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. |
| Conditions for safe storage, including any incompatibilities | : | 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. |
| | | |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | | Exposure limits | |
|-------------------------------|--------------|------------------------|---|
| dicopper oxide | | | TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). [copper |
| witere | | | fume] STEL: 0.6 mg/m ³ 15 minutes. Form: Fume TWA: 0.2 mg/m ³ 8 hours. Form: Fume |
| xylene | | | TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). [xylenes] STEL: 542.5 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. |
| ethylbenzene | | | TWA: 100 ppm 8 hours. TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). STEL: 125 ppm 15 minutes. |
| | | | STEL: 542.5 mg/m³ 15 minutes. TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. |
| 1-methoxy-2-propanol | | | TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018). STEL: 461.25 mg/m ³ 15 minutes. |
| ate of issue/Date of revision | : 26.06.2024 | Date of previous issue | : 25.06.2024 Version : 1.06 6/15 |

Section 8. Exposure controls/personal protection

| | STEL: 125 ppm 15 minutes. TWA: 369 mg/m³ 8 hours. TWA: 100 ppm 8 hours. | |
|----------------------------------|---|---|
| Biological exposure indice | | |
| No exposure indices known | | |
| Appropriate engineering controls | Use only with adequate ventilation. Use process enclosures, local exhaventilation or other engineering controls to keep worker exposure to airb contaminants below any recommended or statutory limits. The enginee also need to keep gas, vapour or dust concentrations below any lower e limits. Use explosion-proof ventilation equipment. | orne ring controls |
| Individual protection measu | | |
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that appropriate standard or certification. Respirators must be used accordi respiratory protection program to ensure proper fitting, training, and othe aspects of use. | ng to a |
| Hand protection | There is no one glove material or combination of materials that will give resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the pro- The instructions and information provided by the glove manufacturer on storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage is material. Always ensure that gloves are free from defects and that they are stored correctly. The performance or effectiveness of the glove may be reduced by phys damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but sh applied once exposure has occurred. Wear suitable gloves tested to ISO 374-1:2016. Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0. butyl rubber (> 0.4 mm), PVC (> 0.5 mm) Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.75 mm), Teflon (> 0.35 mm), 4H/Silver Shield® (> 0.0 polyvinyl alcohol (PVA) (> 0.3 mm) | oduct. use, to the glove d and used ical/chemical iould not be 35 mm), 35 mm), 7 mm), |
| | penetration, seek advice by the supplier of chemical resistance and The user must check that the final choice of type of glove selected for h product is the most appropriate and takes into account the particular co- use, as included in the user's risk assessment. | andling this |
| Eye protection | Safety eyewear complying to ISO 16321-1:2022 should be used when a assessment indicates this is necessary to avoid exposure to liquid splas gases or dusts. If contact is possible, the following protection should be unless the assessment indicates a higher degree of protection: chemic goggles and/or face shield. If inhalation hazards exist, a full-face respiratequired instead. | hes, mists, worn, al splash |
| Body protection | Use chemical-resistant protective suit / disposable overall. | |
| | Personal protective equipment for the body should be selected based of being performed and the risks involved and should be approved by a sp before handling this product. When there is a risk of ignition from static wear anti-static protective clothing. For the greatest protection from statid discharges, clothing should include anti-static overalls, boots and gloves | ecialist electricity, tic |
| Other skin protection | Appropriate footwear and any additional skin protection measures shou selected based on the task being performed and the risks involved and approved by a specialist before handling this product. | |

Section 8. Exposure controls/personal protection

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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

| Physical state | 1 | Liquid. |
|---|---|---|
| Colour | 1 | Red |
| Odour | 1 | Characteristic. |
| Odour threshold | 1 | Not available. |
| рН | 1 | Not applicable. |
| Melting point/freezing point | 1 | Not applicable. |
| Boiling point, initial boiling point, and boiling range | ; | Not available. |
| Flash point | 1 | Closed cup: 27°C (80.6°F) |
| Flammability | 1 | Not available. |
| Lower and upper explosion limit/flammability limit | : | Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol) |
| Vapour pressure | 1 | |

| | | Vapour Pres | sure at 20°C | V | Vapour pressure at 50°C | | |
|---------------------------------|----------|----------------------------|----------------|-------|-------------------------|--------|--|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | |
| ethanol | 42.94865 | 5.7 | | | | | |
| n-butyl acetate | 11.25096 | 1.5 | DIN EN 13016-2 | | | | |
| ethylbenzene | 9.30076 | 1.2 | | | | | |
| 1-methoxy-2-propanol | 8.5 | 1.1 | | | | | |
| xylene | 6.7 | 0.89 | | | | | |
| 2-methoxy-1-methylethyl acetate | 2.7 | 0.36 | OECD 104 | | | | |
| hydrocarbons, C9, aromatics | 2.5 | 0.33 | | | | | |
| tetraethyl silicate | 0.82 | 0.11 | | | | | |
| colophony | 0 | 0 | | | | | |
| propylidynetrimethanol | 0 | 0 | | | | | |
| Relative vapour density | : Not a | vailable. | • | | | | |
| ensity | : 1.68 | g/cm³ | | | | | |
| olubility(ies) | : | | | | | | |
| Media | | Result | | | | | |
| cold water hot water | | Not soluble Not soluble | | | | | |

Partition coefficient: n-
octanol/water: Not applicable.Auto-ignition temperature:

Section 9. Physical and chemical properties and safety characteristics

| Ingredient name | °C | °F | Method |
|---------------------------------|------------|------------|-----------|
| zineb | 149 | 300.2 | |
| tetraethyl silicate | 222 | 431.6 | |
| 1-methoxy-2-propanol | 270 | 518 | |
| hydrocarbons, C9, aromatics | 280 to 470 | 536 to 878 | |
| 2-methoxy-1-methylethyl acetate | 333 | 631.4 | DIN 51794 |
| n-butyl acetate | 415 | 779 | EU A.15 |
| xylene | 432 | 809.6 | |
| ethylbenzene | 432.22 | 810 | |
| ethanol | 455 | 851 | DIN 51794 |

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) Particle characteristics

Median particle size

: Not applicable.

| Section 10. Stability and reactivity | | | | |
|--------------------------------------|---|--|--|--|
| Chemical stability | : The product is stable. | | | |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. | | | |

| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, |
|---------------------|--|
| | braze, solder, drill, grind or expose containers to heat or sources of ignition. |

Incompatible materials : Reactive or incompatible with the following materials: oxidising materials

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

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 Oral | Rat | 1340 mg/kg | - |
| xylene | LC50 Inhalation Vapour | Rat | 11 mg/l ັ | 4 hours |
| - | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDLo Dermal | Rabbit | 4300 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat - Male | 11 mg/l | 4 hours |
| - | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| zineb | LD50 Oral | Rat | 1850 mg/kg | - |
| copper pyrithione | LC50 Inhalation Dusts and mists | Rat | 70 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 300 mg/kg | - |
| | LD50 Oral | Rat | 200 mg/kg | - |
| 1-methoxy-2-propanol | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 6600 mg/kg | - |

Irritation/Corrosion

Section 11. Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|------------------------------------|------------------------------------|-------|------------------------|-------------|
| dicopper oxide | Eyes - Cornea opacity | Rabbit | - | 72 hours | - |
| | Eyes - Redness of the conjunctivae | Rabbit | - | 48 hours | - |
| xylene | Eyes - Mild irritant | Rabbit | - | 87 milligrams | - |
| | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| copper pyrithione | Eyes - Severe irritant | Mammal - species unspecified | - | - | - |
| | Skin - Irritant | Mammal - species unspecified | - | - | - |
| zinc oxide | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| 1-methoxy-2-propanol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|---------------------------------|-------------|
| colophony | skin | Mammal - species unspecified | Sensitising |
| zineb | skin | Mammal - species unspecified | Sensitising |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

| Product/ingredient name | Maternal toxicity | Fertility | Developmental toxin | Species | Dose | Exposure |
|-------------------------|-------------------|-----------|---------------------|---------------------------------|------------------------------------|----------|
| zineb | - | - | | Mammal - species unspecified | Route of exposure unreported | - |
| copper pyrithione | - | - | | Mammal - species unspecified | Route of exposure unreported | - |

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|------------------------------|
| xylene | Category 3 | - | Respiratory tract irritation |
| zineb | Category 3 | - | Respiratory tract irritation |
| copper pyrithione | Category 3 | - | Respiratory tract irritation |
| 1-methoxy-2-propanol | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

| Product/ingredient name | | Route of exposure | Target organs |
|-------------------------|--------------------------|----------------------|----------------------------------|
| | Category 2 Category 1 | | hearing organs nervous system |

Aspiration hazard

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

| Information on likely routes of exposure | Not available. | |
|--|---|--|
| Potential acute health effects | | |
| Eye contact | Causes serious eye damage. | |
| Inhalation | Harmful if inhaled. May cause respiratory irritation. | |
| Skin contact | May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. | |
| Ingestion | Harmful if swallowed. | |
| Symptoms related to the phy | cal, chemical and toxicological characteristics | |
| Eye contact | Adverse symptoms may include the following: pain watering redness | |
| Inhalation | Adverse symptoms may include the following: respiratory tract irritation coughing | |

| | reduced foetal weight increase in foetal deaths skeletal malformations |
|----------------|--|
| Skin contact : | Adverse symptoms may include the following: pain or irritation redness 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 |

| Delayed and immediate effect | ts 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 eff | ects |
| Not available. | |

Section 11. Toxicological information

| General | May cause damage to organs through prolonged or repeated exposure. 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 fertility or the unborn child. |
| | |

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| SeaMate NB | 1237.5 | 4288.9 | N/A | 52.6 | 2.0 |
| dicopper oxide | 500 | N/A | N/A | N/A | 3.34 |
| xylene | N/A | 1100 | N/A | 11 | N/A |
| ethylbenzene | N/A | N/A | N/A | 11 | N/A |
| copper pyrithione | 200 | 300 | N/A | N/A | 0.07 |
| 1-methoxy-2-propanol | 6600 | 13000 | N/A | N/A | N/A |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---|--|-----------|
| dicopper oxide | Acute LC50 0.075 mg/l Fresh water | Fish - Danio rerio | 96 hours |
| | Chronic NOEC 0.001 mg/l | Algae | - |
| | Chronic NOEC 0.0052 mg/l | Algae | - |
| xylene | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| ethylbenzene | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| - | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/l | Fish | 96 hours |
| zineb | Acute EC50 0.38 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute LC50 970 to 1800 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 0.225 mg/l | Fish | 96 hours |
| | Acute LC50 20.8 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.05 mg/l Fresh water | Algae - Chlorella vulgaris | 96 hours |
| | Chronic NOEC 0.05 mg/l Fresh water | Algae - Scenedesmus quadricauda | 96 hours |
| copper pyrithione | Acute EC50 0.022 mg/l | Daphnia | 48 hours |
| | Acute IC50 0.035 mg/l | Algae | 120 hours |
| | Acute LC50 0.0043 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.00046 mg/l | Algae - Skeletonema costatum | 120 hours |
| zinc oxide | Acute LC50 1.1 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.02 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 72 hours |

Persistence and degradability

Section 12. Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|--|
| dicopper oxide xylene ethylbenzene zinc oxide | | | Not readily Readily Readily Not readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|------------|-------------|-----------|
| xylene | 3.12 | 8.1 to 25.9 | low |
| colophony | 1.9 to 7.7 | - | high |
| ethylbenzene | 3.6 | - | low |
| zineb | 1.3 | - | low |
| zinc oxide | - | 28960 | high |
| 1-methoxy-2-propanol | <1 | - | low |

Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

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

| | UN | IMDG | ΙΑΤΑ |
|-------------------------------|--|---|--|
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | Paint | Paint. Marine pollutant (dicopper oxide) | Paint |
| Transport hazard class(es) | 3 | | 3 |
| Packing group | | Ш | |
| Environmental hazards | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

Date of issue/Date of revision

Section 14. Transport information

| ADR/RID | : | Tunnel restriction code: (D/E) Hazard identification number: 30 |
|------------------------------|---|---|
| IMDG | 1 | The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg. Emergency schedules F-E, <u>S-E</u> |
| ΙΑΤΑ | : | The environmentally hazardous substance mark may appear if required by other transportation regulations. |
| Special precautions for user | : | 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. |
| Transport in bulk according | : | Not available. |

to IMO instruments

Section 15. Regulatory information

TCCSCA List of toxic chemicals

Not applicable.

TCCSCA List of concerned chemicals

Not applicable.

| OSHA Enforcement Rules Article 28 | : This product contains substances "Specially hazardous to health": xylene, n-butyl acetate, lead. |
|---|---|
| OSHA Article 29 | : Employers shall not employ persons under the age of 18 to perform any potentially dangerous or harmful work involving this product. (OSHA Art. 29 par 3) |
| OSHA Article 30 | : Employers shall not employ female laborers who are still within their first postpartum year to perform potentially dangerous and hazardous work involving this product. (OSHA Art. 30 second part, par 2) |
| Organic solvent poisoning prevention rule | : Type 2 |

Priority management chemicals, Article 2

CMR chemical substances, category 1 (Article 2.2 (I))

: Applicable

Chemical substances possessing physical hazards or health hazards (Article 2.2 (II))

| Ingredient name | Name on list | Concentration |
|---------------------------------|---|--------------------|
| 2-methoxy-1-methylethyl acetate | propylene glycol monomethyl ether propylene glycol monomethyl ether acetate butyl acetate | ≤3 ≤0.3 ≤0.1 |

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Procedure used to derive the classification

| | <u>siasemente</u> | |
|---|--|---|
| | Justification | |
| irritation) - Category 3 | gory 4 ategory 5 • Category 4 N - Category 2 IRRITATION - Category 1 ory 1 Category 2 OXICITY - SINGLE EXPOSURE (Respiratory tract OXICITY - REPEATED EXPOSURE - Category 2 - Category 1 | On basis of test data Calculation method Calculation method |
| References Organisation that prepared the SDS | Not available. Jotun AS, Norway +47 33 45 70 00 | |
| <u>History</u> | | |
| Date of printing | : 26.06.2024 | |
| Date of previous issue | : 25.06.2024 | |
| Version | : 1.06 | |
| Key to abbreviations | ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations | |

Indicates information that has changed from previously issued version.

Notice to reader

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Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.