SAFETY DATA SHEET



Resist 86 Comp A

| | fication |
|-------------------------------|--|
| GHS product identifier | : 無機矽酸富鋅底漆0KH 組份A |
| Other means of identification | : Not available. |
| Product code | : 684 |
| Product type | : Liquid. |
| Product description | : Paint. |
| Relevant identified uses o | f the substance or mixture and uses advised against |
| | Identified uses |
| Use in coatings - Industrial | use |
| Use in coatings - Professio | nal 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 佐克: +86 512 58927086 |
| | 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 51235599 |

Section 2. Hazards identification

| Classification of the substance or mixture | : FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 5 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |
|--|--|
| GHS label elements Hazard pictograms | |
| Signal word | : Danger. |

Section 2. Hazards identification

| Hazard statements | : Highly flammable liquid and vapor. May be harmful if swallowed. Causes serious eye irritation. Causes skin irritation. |
|--------------------------|--|
| Precautionary statements | |
| Prevention | : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Wash hands thoroughly after handling. |
| Response | : IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| Storage | : Store in a well-ventilated place. Keep cool. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

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

| CAS number: Not applicable.Product code: 684 | | |
|---|---|---|
| Product name | Concentration | CAS number |
| ethanol 1-methoxy-2-propanol 2-butoxyethanol tetraethyl silicate denaturing agent | ≥25 - ≤50 ≥10 - ≤18 ≥10 - <22 ≤5 ≤1.6 | 64-17-5 107-98-2 111-76-2 78-10-4 - |
| 物品名稱 | 濃度 | 化學文摘社登記號碼(CAS No.) |
| 乙醇 丙二醇甲醚 乙二醇丁醚 矽酸四乙酯 denaturing agent | | 64-17-5 107-98-2 111-76-2 78-10-4 - |

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.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: 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. Get medical attention.

Section 4. First aid measures

| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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. |
|--------------|--|
| Skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or 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 | | |
|-------------------------------|---|----|
| Eye contact | Causes serious eye irritation. | |
| Inhalation | No known significant effects or critical hazards. | |
| Skin contact | Causes skin irritation. | |
| Ingestion | May be harmful if swallowed. | |
| Over-exposure signs/symp | | |
| Eye contact | Adverse symptoms may include the following: pain or irritation vatering edness | |
| Inhalation | No specific data. | |
| Skin contact | Adverse symptoms may include the following: rritation edness | |
| Ingestion | lo specific data. | |
| Indication of immediate med | attention and special treatment needed, if necessary | |
| Notes to physician | Γreat symptomatically. Contact poison treatment specialist immediately if larg quantities have been ingested or inhaled. | ge |
| Specific treatments | No specific treatment. | |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training nay be dangerous to the person providing aid to give mouth-to-mouth resusc | • |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--------------------------------|--|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |

Section 5. Fire-fighting measures

| Specific hazards arising from the chemical | : Highly flammable liquid and vapor. 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. | |
|---|--|---|
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide 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. | 1 |
| 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 | : | 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|---|------|--|
| Environmental precautions | : | Avoid dispersal of spilled 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). |
| Methods and materials for co | onta | ainment 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 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

| Precautions for safe handling | |
|---|---|
| Protective measures : | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. |
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| Conditions for safe storage, including any incompatibilities | 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. Eliminate all ignition sources. Separate from oxidizing 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 unlabeled 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 | | |
|----------------------------------|---|--|--|
| ethanol | TW Minstry of Labor, labor permissible workplace exposure standards, allowab concentration (Taiwan, 3/2018). STEL: 1880 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1880 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. | | |
| 1-methoxy-2-propanol | TW Minstry of Labor, labor permissible workplace exposure standards, allowab concentration (Taiwan, 3/2018). STEL: 461.25 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 369 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. | | |
| 2-butoxyethanol | TW Minstry of Labor, labor permissible workplace exposure standards, allowab concentration (Taiwan, 3/2018). Absorbe through skin. STEL: 37.5 ppm 15 minutes. STEL: 181.5 mg/m ³ 15 minutes. TWA: 25 ppm 8 hours. TWA: 121 mg/m ³ 8 hours. | | |
| 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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. | | |
| ndividual protection measu | | | |
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. | | |
| 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. | | |

| Coolion of Expos | |
|-----------------------|---|
| | There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. |
| | Wear suitable gloves tested to EN374. May be used, gloves(breakthrough time) 4 - 8 hours: Teflon, PE, nitrile rubber, neoprene Not recommended, gloves(breakthrough time) < 1 hour: polyvinyl alcohol (PVA), PVC Recommended, gloves(breakthrough time) > 8 hours: butyl rubber, Viton®, Saranex, |
| | 4H |
| Eye protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. |
| 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| 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. |
| 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |

Section 9. Physical and chemical properties

| <u>Appearance</u> | |
|--|---|
| Physical state | : Liquid. |
| Color | : Various colors. |
| Odor | : Characteristic. |
| Odor threshold | : Not available. |
| рН | : Not applicable. |
| Melting point | : Not applicable. |
| Boiling point | : >36°C (>96.8°F) |
| Flash point | : Closed cup: 14°C (57.2°F) |
| Evaporation rate | : Highest known value: 1.7 (ethanol) Weighted average: 1.19compared with butyl acetate |
| Flammability (solid, gas) | : Not applicable. |
| Lower and upper explosive (flammable) limits | : 1.1 - 23% |
| Vapor pressure | : Highest known value: 5.7 kPa (43 mm Hg) (at 20°C) (ethanol). Weighted average: 3.45 kPa (25.88 mm Hg) (at 20°C) |
| Vapor density | : |
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Section 9. Physical and chemical properties

| | | Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted average: 2.71 (Air = 1) |
|--|---|---|
| Relative density | : | 1.099 to 1.1 g/cm ³ |
| Solubility | : | Insoluble in the following materials: cold water and hot water. |
| Partition coefficient: n- octanol/water | : | Not available. |
| Auto-ignition temperature | : | Lowest known value: 222°C (431.6°F) (tetraethyl silicate). |
| Decomposition temperature | : | Not available. |
| Viscosity | : | Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 mm²/s) |

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 pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
| Hazardous decomposition products | : 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 |
|-------------------------|-----------------------|--------------|--------------------------|----------|
| ethanol | LC50 Inhalation Vapor | Rat | 124700 mg/m ³ | 4 hours |
| 1-methoxy-2-propanol | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 6600 mg/kg | - |
| 2-butoxyethanol | LD50 Oral | Guinea pig - | 1414 mg/kg | - |
| | | Male, Female | | |
| | LD50 Oral | Rat - Male, | 1300 mg/kg | - |
| | | Female | | |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--|------------------------------------|-------|------------------------------|-------------|
| ethanol | Eyes - Moderate irritant | Rabbit | - | 100 microliters | - |
| | Skin - Mild irritant | Rabbit | - | 400 milligrams | - |
| 1-methoxy-2-propanol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| 2-butoxyethanol | Skin - Mild irritant Eyes - Moderate irritant | Rabbit Rabbit | - | mg 500 mg 24 hours 100 | - |
| | Skin - Mild irritant | Rabbit | - | mg 500 mg | - |
| tetraethyl silicate | Eyes - Mild irritant | Mammal - species unspecified | - | - | - |

Sensitization

Not available.

Mutagenicity

Not available.

Section 11. Toxicological information

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | • • | Route of exposure | Target organs |
|---|------------|------------------------------------|---|
| 1-methoxy-2-propanol tetraethyl silicate | | Not applicable. Not applicable. | Narcotic effects Respiratory tract irritation |
| denaturing agent | Category 3 | Not applicable. | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

| Information on the likely routes of exposure | : | Not available. |
|---|---|---|
| Potential acute health effects | | |
| Eye contact | : | Causes serious eye irritation. |
| Inhalation | ÷ | No known significant effects or critical hazards. |
| Skin contact | : | Causes skin irritation. |
| Ingestion | : | May be harmful if swallowed. |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
|--------------|--|
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |

Delayed and immediate effects and also chronic effects from short and long term exposure

| <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 eff | <u>ects</u> |
| Not available. | |
| General | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| | |

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| | |

| Mutagenicity | : No known significant effects or critical hazards. |
|------------------------------|---|
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| | |

- ffects or critical hazards.
- **Fertility effects**
- : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|---------------------|-------------|
| Oral | 5000 mg/kg |
| Dermal | 11000 mg/kg |
| Inhalation (vapors) | 77.46 mg/l |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---|---|----------------------|
| 2-butoxyethanol | Acute EC50 1000 mg/l Fresh water Acute LC50 1000 mg/l Marine water | Daphnia - Daphnia magna Crustaceans - Chaetogammarus marinus - Young | 48 hours 48 hours |

Persistence and degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| ethanol | -0.35 | - | low |
| 1-methoxy-2-propanol | <1 | - | low |
| 2-butoxyethanol | 0.81 | - | low |
| tetraethyl silicate | 3.18 | - | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized 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 nonrecyclable 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | • | | |
|-------------------------------|--------|---------------------------------|--------|
| | UN | IMDG | IATA |
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | Paint | Paint | Paint |
| Transport hazard class(es) | 3 | 3 | 3 |
| Packing group | 11 | II | 11 |
| Environmental hazards | No. | No. | No. |
| Additional information | - | Emergency schedules F-E, S-E | - |

ADR / RID

: Tunnel restriction code: (D/E) Hazard identification number: 33

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.

Section 15. Regulatory information

| List of chemicals for which manufacturing or handling is defined as "work specially hazardous to health" | : This product contains substances "Specially hazardous to health": 2-butoxyethanol. | |
|---|--|--|
| Safety, health and environmental regulations specific for the product | : No known specific national and/or regional regulations applicable to this product (including its ingredients). | |
| Taiwan Chemical Substances Inventory (TCSI) | : Not determined. | |
| International regulations | | |
| Chemical Weapon Conventio | on List Schedules I, II & III Chemicals | |
| Not listed. | | |
| Montreal Protocol Not listed. | | |
| Stockholm Convention on Pe | <u>ersistent Organic Pollutants</u> | |
| Not listed. | | |
| Rotterdam Convention on Pr | ior Informed Consent (PIC) | |
| Not listed. | | |
| UNECE Aarhus Protocol on F | 20Ps and Heavy Metals | |
| | | |
| Not listed. | | |
| Section 16. Other information | | |
| History | | |

History

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|---------------|--------------|

Section 16. Other information

| 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 = Intermediate Bulk Container |
| | IMDG = 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) |
| | 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.

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