

Tankguard Zinc Comp A

Section 1. Identification

GHS product identifier : Tankguard Zinc Comp A

Other means of identification

: Not available.

Product code : 10200
Product description : Paint.
Product type : Liquid.

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

Identified uses

Use in coatings - Industrial use
Use in coatings - Professional use

Supplier's details : Jotun (Singapore) Pte Ltd

37 Tuas View Crescent Singapore 637236 Phone: 6508 8288 Fax: 6265 7484 SDSJotun@jotun.com

Emergency telephone

number

: Jotun (Singapore) Pte Ltd, Tel: 6508 8288

Section 2. Hazards identification

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -

Category 3

GHS label elements

Hazard pictograms :





Signal word : Danger.

Hazard statements : Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Precautionary statements

Prevention: Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent

static discharges. Avoid breathing vapour.

Response : IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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 advice or

attention.

Storage : Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Date of issue : 01.06.2021 1/10

Section 2. Hazards identification

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/other identifiers

CAS number : Not applicable.

EC number : Mixture. **Product code** : 10200

| Ingredient name | % | CAS number |
|----------------------|-----------|------------|
| 1-methoxy-2-propanol | ≥25 - ≤50 | 107-98-2 |
| ethanol | ≥10 - ≤25 | 64-17-5 |
| 2-butoxyethanol | ≤8.2 | 111-76-2 |
| propan-2-ol | ≤5 | 67-63-0 |
| tetraethyl silicate | ≤5 | 78-10-4 |
| xylene | ≤1.7 | 1330-20-7 |

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.

Chemical formula : Not applicable.

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.

Inhalation

: 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. Get medical attention. If necessary, call a poison center or physician. 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. Get medical attention if symptoms occur. 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 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 effects

Eye contact : Causes serious eye irritation.

Inhalation : May cause drowsiness or dizziness.

Skin contactIngestionNo known significant effects or critical hazards.

Date of issue : 01.06.2021 2/10

Section 4. First aid measures

Over-exposure signs/symptoms

: Adverse symptoms may include the following: **Eye contact**

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : No specific data. Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

: No specific treatment. Specific treatments

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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Hazardous thermal decomposition products

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Use dry chemical, CO₂, water spray (fog) or foam.

: Do not use water jet.

: Highly 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.

: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

: 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.

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

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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).

Methods and material for containment and cleaning up

Date of issue : 01.06.2021 3/10

Section 6. Accidental release measures

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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt 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 vapour 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.

including any incompatibilities

Conditions for safe storage, : 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 wellventilated 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 | | |
|----------------------|--|--|--|
| 1-methoxy-2-propanol | Workplace Safety and Health Act (Singapore, 2/2006). | | |
| | PEL (short term): 553 mg/m³ 15 minutes. | | |
| | PEL (short term): 150 ppm 15 minutes. | | |
| | PEL (long term): 369 mg/m³ 8 hours. | | |
| athernal | PEL (long term): 100 ppm 8 hours. | | |
| ethanol | Workplace Safety and Health Act | | |
| | (Singapore, 2/2006). | | |
| | PEL (long term): 1880 mg/m³ 8 hours. | | |
| | PEL (long term): 1000 ppm 8 hours. | | |
| 2-butoxyethanol | Workplace Safety and Health Act | | |
| | (Singapore, 2/2006). | | |
| | PEL (long term): 25 ppm 8 hours. | | |
| | PEL (long term): 121 mg/m³ 8 hours. | | |
| propan-2-ol | Workplace Safety and Health Act | | |

Date of issue : 01.06.2021 4/10

Section 8. Exposure controls/personal protection

(Singapore, 2/2006). PEL (long term): 400 ppm 8 hours. PEL (long term): 983 mg/m³ 8 hours. PEL (short term): 1230 mg/m³ 15 minutes. PEL (short term): 500 ppm 15 minutes. tetraethyl silicate Workplace Safety and Health Act (Singapore, 2/2006). PEL (long term): 85 mg/m³ 8 hours. PEL (long term): 10 ppm 8 hours. Workplace Safety and Health Act xylene (Singapore, 2/2006). PEL (short term): 651 mg/m³ 15 minutes. PEL (short term): 150 ppm 15 minutes. PEL (long term): 434 mg/m³ 8 hours. PEL (long term): 100 ppm 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying to EN 166 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.

Skin protection Hand protection

: 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.

Recommended, gloves(breakthrough time) > 8 hours: Saranex, nitrile rubber, butyl rubber, Viton®, 4H, CPF 3, Responder

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene, Teflon, PE Not recommended, gloves(breakthrough time) < 1 hour: PVC, polyvinyl alcohol (PVA)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

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.

Date of issue : 01.06.2021 5/10

Section 8. Exposure controls/personal protection

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.

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.

Section 9. Physical and chemical properties

<u>Appearance</u>

Boiling point

Physical state : Liquid. Colour : Grey, Green. Odour Characteristic. **Odour threshold** : Not available. pН : Not applicable. **Melting point** : Not applicable.

Flash point : Closed cup: 16°C (60.8°F)

: Not applicable. **Burning time Burning rate** : Not applicable.

: Highest known value: 1.7 (ethanol) Weighted average: 1.05compared with butyl **Evaporation rate**

acetate

Flammability (solid, gas)

Lower and upper explosive

(flammable) limits

: Not applicable. : 0.8 - 23%

: >36°C (>96.8°F)

: Highest known value: 5.7 kPa (43 mm Hg) (at 20°C) (ethanol). Weighted average: Vapour pressure

2.56 kPa (19.2 mm Hg) (at 20°C)

Vapour density : Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted average: 2.91

(Air = 1)

Relative density : 1.085 g/cm³

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature

: Lowest known value: 222°C (431.6°F) (tetraethyl silicate).

: Not available. **Decomposition temperature SADT** : Not available.

Viscosity Dynamic: Highest known value: 1.7 cP (1-methoxy-2-propanol) Weighted average:

1.19 cP

Kinematic: Highest known value: 3.64 cSt (2-butoxyethanol)

Kinematic (40C): >20.5 cSt

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

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.

Date of issue : 01.06.2021 6/10

Section 10. Stability and reactivity

Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

Hazardous decomposition products

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

SADT

: Not available.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|------------------------|--------------|--------------------------|----------|
| 1-methoxy-2-propanol | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 6600 mg/kg | - |
| ethanol | LC50 Inhalation Vapour | Rat | 124700 mg/m ³ | 4 hours |
| 2-butoxyethanol | LD50 Oral | Guinea pig - | 1414 mg/kg | - |
| • | | Male, Female | | |
| | LD50 Oral | Rat - Male, | 1300 mg/kg | - |
| | | Female | | |
| propan-2-ol | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| xylene | LC50 Inhalation Vapour | Rat | 20 mg/l | 4 hours |
| - | LD50 Oral | Rat | 4300 mg/kg | - |
| | TDLo Dermal | Rabbit | 4300 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|-------------|-------|---------------|-------------|
| 1-methoxy-2-propanol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| ethanol | Eyes - Moderate irritant | Rabbit | - | 100 | - |
| | | | | microliters | |
| | Skin - Mild irritant | Rabbit | - | 400 | - |
| | | | | milligrams | |
| 2-butoxyethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| propan-2-ol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 | - |
| | | | | milligrams | |
| | Skin - Mild irritant | Rabbit | - | 500 | - |
| | | | | milligrams | |
| tetraethyl silicate | Eyes - Mild irritant | Mammal - | - | - | - |
| | | species | | | |
| | | unspecified | | | |
| xylene | Eyes - Mild irritant | Rabbit | [- | 87 milligrams | - |
| | Skin - Mild irritant | Rat | [- | 8 hours 60 | - |
| | | | | microliters | |

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Date of issue : 01.06.2021 7/10

Section 11. Toxicological information

| Name | Category | Route of exposure | Target organs |
|----------------------------------|--------------------------|-------------------|-----------------------------------|
| 1-methoxy-2-propanol propan-2-ol | Category 3 Category 3 | - | Narcotic effects Narcotic effects |
| tetraethyl silicate | Category 3 | - | Respiratory tract irritation |
| xylene | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

| Name | Result |
|--------|--------------------------------|
| xylene | ASPIRATION HAZARD - Category 1 |

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May cause drowsiness or dizziness.

Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Symptoms related to the physical, chemical and toxicological characteristics

: Adverse symptoms may include the following:

Eye contact

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : No specific data. Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. 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. **Fertility effects** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

: 01.06.2021 Date of issue 8/10 Tankguard Zinc Comp A

Section 11. Toxicological information

| Route | ATE value |
|----------------------|----------------|
| Oral | 17142.86 mg/kg |
| Dermal | 73333.33 mg/kg |
| Inhalation (vapours) | 99.59 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 - | 48 hours 48 hours |
| | , reace 2000 root ring, rinamine mater | Chaetogammarus marinus - Young | 1011000 |
| propan-2-ol | Acute EC50 10100 mg/l Fresh water Acute LC50 4200 mg/l Fresh water | Daphnia - Daphnia magna Fish - Rasbora heteromorpha | 48 hours 96 hours |

Persistence/degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| 1-methoxy-2-propanol | <1 | - | low |
| ethanol | -0.35 | - | low |
| 2-butoxyethanol | 0.81 | - | low |
| propan-2-ol | 0.05 | - | low |
| tetraethyl silicate | 3.18 | - | low |
| xylene | 3.12 | 8.1 to 25.9 | 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 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. 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.

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

Section 14. Transport information

Date of issue : 01.06.2021 9/10

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 | II | II | II |
| Environmental hazards | No. | No. | No. |
| Additional information | - | Emergency schedules F-E, S-E | - |

Additional information

Transport in accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

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.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Singapore - hazardous chemicals under government control

None.

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

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

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.

Date of issue : 01.06.2021 10/10