**JOTUN** 

Jotun Protects Property

## SAFETY DATA SHEET



| Section 1. Identi           | fication  |
|-----------------------------|---|
| Product name                | : Majestic Design Prestige X  |
|                             | 美爵士灵感空间 魅丽 专色   |
| Product code                | : 31702   |
| Product type                | : Liquid.   |
| Product description         | : Waterborne paint.   |
| Relevant identified uses of | of the substance or mixture and uses advised against  |
|                             | Identified uses   |
| Use in coatings - Consume   | er use: Apply this product only as specified on the label.  |
| Supplier's details          | : 佐敦涂料(张家港)有限公司<br>中国江苏扬子江国际化学工业园南海路39号 215634<br>电话: +86 512 58937988<br>传真: +86 512 58937986  |
|                             | Jotun Coatings (Zhangjiagang) Co. Ltd<br>NO.39 Nanhai Road Jiangsu Yangtze River International Chemical Industry Park,<br>Jiangsu Province 215634 China<br>Tel: +86 512 58937988<br>Fax: +86 512 58937986                             |
|                             | 中远佐敦船舶涂料(青岛)有限公司<br>中国山东省青岛市高新技术产业开发区春阳路南侧、华贯路东侧, 266109<br>总机电话: +86-532-68689888<br>总机传真: +86-532-66726750  |
|                             | Jotun COSCO Marine Coatings (Qingdao) Co. Ltd.<br>South of Chunyang Road and East of Huaguan Road, Qingdao National High-tech Industrial<br>Development Zone, Qingdao 266109, China<br>Tel: +86-532-68689888<br>Fax: +86-532-66726750 |
|                             | SDSJotun@jotun.com  |
| Emergency telephone number  | : Emergency Services for Chemical Incident of China. Tel: +86 532 83889090  |

## Section 2. Hazards identification

| Prevention<br>Response  | <ul><li>: P273 - Avoid release to the environment.</li><li>: Not applicable.</li></ul> |
|---|--|
| General   | : P102 - Keep out of reach of children.  |
| Precautionary statem  | ents   |
| Hazard statements   | : H402 - Harmful to aquatic life.  |
| Signal word   | : No signal word.  |
| Classification of the<br>substance or mixture<br>GHS label elements | : SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3                                       |

## Section 2. Hazards identification

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 3. Composition/information on ingredients

| Substance/mixture                    | : Mixture         |                |                         |  |  |
|--------------------------------------|-------------------|----------------|-------------------------|--|--|
| Other means of identification        | : Not available.  | Not available. |                         |  |  |
| CAS number/other ident               | tifiers           |                |                         |  |  |
| CAS number                           | : Not applicable. |                |                         |  |  |
| EC number                            | : Mixture.        |                |                         |  |  |
| Product code                         | : 31702           |                |                         |  |  |
| Ingredient name                      |                   | %              | CAS number              |  |  |
| ammonia<br>3-iodo-2-propynyl butylca | rbamate (IPBC)    | ≤0.69<br><0.1  | 1336-21-6<br>55406-53-6 |  |  |

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 if irritation occurs. 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. 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 adverse health effects persist or are severe. 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 : No known significant effects or critical hazards. Eye contact Inhalation : No known significant effects or critical hazards.

| No specific data. |
|-------------------|
| No specific data. |
| No specific data. |
|                   |

| Date of issue : 27.12.2019 |  |
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Disposal

## Section 4. First aid measures

| Ingestion                  |             | No specific data.  |
|----------------------------|-------------|--|
| Indication of immediate me | <u>dica</u> | l 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.  |
| Specific treatments        | 1           | No specific treatment.   |
| Protection of first-aiders | :           | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

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See toxicological information (Section 11)

## Section 5. Firefighting measures

| Extinguishing media                            |  |
|--|--|
| Suitable extinguishing media                   | : Use an extinguishing agent suitable for the surrounding fire.  |
| Unsuitable extinguishing media                 | : None known.  |
| Specific hazards arising from the chemical     | : In a fire or if heated, a pressure increase will occur and the container may burst.<br>This material is harmful to aquatic life. Fire water contaminated with this material<br>must be contained and prevented from being discharged to any waterway, sewer or<br>drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>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.  |
| 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 |  |  |  |
|---|--|--|--|
| For non-emergency<br>personnel                                      | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Avoid breathing vapour or<br>mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>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<br>and sewers. Inform the relevant authorities if the product has caused environmenta<br>pollution (sewers, waterways, soil or air). Water polluting material. May be harmful<br>to the environment if released in large quantities.   |  |  |
| Methods and material for cor  | Methods and material for containment and cleaning up   |  |  |
| Small spill   | Stop leak if without risk. Move containers from spill area. Dilute with water and morup 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. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (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 |  |  |
| Dete efference . 07   | 2010   |  |  |

## Section 6. Accidental release measures

Section 13 for waste disposal.

## Section 7. Handling and storage

| Precautions for safe handling                                      | handle<br>eating,<br>equipn                      | , drinking and smoking should be prohibited in areas where this material is<br>d, stored and processed. Workers should wash hands and face before<br>drinking and smoking. Remove contaminated clothing and protective<br>nent before entering eating areas. See also Section 8 for additional<br>ation on hygiene measures.  |
|--|--|---|
| Conditions for safe storage,<br>including any<br>incompatibilities | from d<br>materia<br>sealed<br>reseale<br>Use ap | n accordance with local regulations. Store in original container protected<br>irect sunlight in a dry, cool and well-ventilated area, away from incompatible<br>als (see Section 10) and food and drink. Keep container tightly closed and<br>until ready for use. Containers that have been opened must be carefully<br>ed and kept upright to prevent leakage. Do not store in unlabelled containers.<br>opropriate containment to avoid environmental contamination. See Section 10<br>ompatible materials before handling or use. |

## Section 8. Exposure controls/personal protection

| Control parameters                |           |   |  |  |
|-----------------------------------|-----------|---|--|--|
| Occupational exposure limits      |           |   |  |  |
| None.                             |           |   |  |  |
| Recommended monitoring procedures | :         | If this product contains ingredients with exposure limits, personal, workplace<br>atmosphere or biological monitoring may be required to determine the effectiveness<br>of the ventilation or other control measures and/or the necessity to use respiratory<br>protective equipment. Reference should be made to appropriate monitoring<br>standards. Reference to national guidance documents for methods for the<br>determination of hazardous substances will also be required.   |  |  |
| Appropriate engineering controls  | :         | Good general ventilation should be sufficient to control worker exposure to airborne contaminants.  |  |  |
| Environmental exposure controls   | :         | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.   |  |  |
| Individual protection measure     | <u>es</u> |   |  |  |
| Hygiene measures                  | :         | Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Wash contaminated clothing before reusing. Ensure that eyewash stations and<br>safety showers are close to the workstation location.   |  |  |
| Eye 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: safety glasses with side-shields.   |  |  |
| Skin protection                   |           |   |  |  |
| Hand protection                   | -         | Chemical-resistant, impervious gloves complying with an approved standard should<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Considering the parameters specified by the glove manufacturer,<br>check during use that the gloves are still retaining their protective properties. It<br>should be noted that the time to breakthrough for any glove material may be<br>different for different glove manufacturers. In the case of mixtures, consisting of<br>several substances, the protection time of the gloves cannot be accurately<br>estimated. |  |  |

## Section 8. Exposure controls/personal protection

| <ul> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.</li> <li>The breakthrough time must be greater than the end use time of the product.</li> <li>The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.</li> <li>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used correctly.</li> <li>The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.</li> <li>Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.</li> </ul> |
|---|
| Wear suitable gloves tested to EN374.<br>May be used, gloves(breakthrough time) 4 - 8 hours: polyvinyl alcohol (PVA)<br>Recommended, gloves(breakthrough time) > 8 hours: nitrile rubber, neoprene, PVC   |
| <ul> <li>Personal protective equipment for the body should be selected based on the task<br/>being performed and the risks involved and should be approved by a specialist<br/>before handling this product.</li> </ul>   |
| <ul> <li>Appropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>approved by a specialist before handling this product.</li> </ul>   |
| : 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

| Flash point: Not available.Burning time: Not applicable.Burning rate: Not applicable.Evaporation rate: 0.36 (water) compared with butyl acetateFlammability (solid, gas): Not applicable.Lower and upper explosive: 0.6 - 4.2%(flammable) limits: 0.6 - 4.2%Vapour pressure: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.01 kPa (22.58 mm Hg) (at 20°C)Vapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2 4-trimethyl-1,3-pentanediol).Relative density: 1.067 g/cm³Solubility: Easily soluble in the following materials: cold water and hot water.Partition coefficient: n-<br>octanol/water: Not available.Auto-ignition temperature: Not applicable.Decomposition temperature: Not available.SADT: Not available.Viscosity: Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)   |                           |     |   |
|--|---------------------------|-----|---|
| Colour: VariousOdour: Characteristic.Odour threshold: Not available.pH: Not applicable.Melting point: 0Boiling point: Lowest known value: 100°C (212°F) (water). Weighted average: 109.39°C (228.9°LFlash point: Not available.Burning time: Not available.Burning rate: Not available.Evaporation rate: 0.36 (water) compared with butyl acetateFlammability (solid, gas): Not applicable.Lower and upper explosive: 0.6 - 4.2%(ffammable) limits:Vapour pressure: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.01 kPa (22.58 mm Hg) (at 20°C)Vapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2 4-trimethyl-1,3-pentanediol).Relative density: 1.067 g/cm³Solubility: Easily soluble in the following materials: cold water and hot water.Partition coefficient: n-<br>octanol/water: Not available.Auto-ignition temperature: Not available.SADT: Not available.Viscosity: Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)                                | <u>Appearance</u>         |     |   |
| Odour: Characteristic.Odour threshold: Not available.pH: Not applicable.Melting point: 0Boiling point: Lowest known value: 100°C (212°F) (water). Weighted average: 109.39°C (228.9°IFlash point: Not available.Burning time: Not applicable.Burning time: Not applicable.Burning rate: Not applicable.Evaporation rate: 0.36 (water) compared with butyl acetateFlammability (solid, gas): Not applicable.Lower and upper explosive: 0.6 - 4.2%(flammable) limits:Vapour pressure: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.01 kPa (22.58 mm Hg) (at 20°C)Vapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2.2 4-trimethyl-1,3-pentanediol).Relative density: 1.067 g/cm³Solubility: Easily soluble in the following materials: cold water and hot water.Partition coefficient: n-<br>octanol/water: Not available.Auto-ignition temperature: Not available.SADT: Not available.SADT: Not available.Viscosity: Not available.Viscosity: Not available. | Physical state            | :   | Liquid.   |
| Odour threshold: Not available.pH: Not applicable.Melting point: 0Boiling point: Lowest known value: 100°C (212°F) (water). Weighted average: 109.39°C (228.9°IFlash point: Not available.Burning time: Not applicable.Burning rate: Not applicable.Evaporation rate: 0.36 (water) compared with butyl acetateFlammability (solid, gas): Not applicable.Lower and upper explosive: 0.6 - 4.2%(flammable) limits: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.01 kPa (22.58 mm Hg) (at 20°C)Vapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2.2<br>4-trimethyl-1,3-pentanediol).Relative density: 1.067 g/cm³Solubility: Easily soluble in the following materials: cold water and hot water.Partition coefficient: n-<br>octanol/water: Not available.Auto-ignition temperature: Not available.SADT: Not available.SADT: Not available.Viscosity: Not available.  | Colour                    | :   | Various   |
| PH:Not applicable.Melting point:0Boiling point:Lowest known value: 100°C (212°F) (water). Weighted average: 109.39°C (228.9°IFlash point:Not available.Burning time:Not applicable.Burning rate:Not applicable.Evaporation rate:0.36 (water) compared with butyl acetateFlammability (solid, gas):Not applicable.Lower and upper explosive:0.6 - 4.2%(flammable) limits::Vapour pressure:Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.01 kPa (22.58 mm Hg) (at 20°C)Vapour density:1.067 g/cm³Solubility:Easily soluble in the following materials: cold water and hot water.Partition coefficient: n-<br>octanol/water:Not applicable.Decomposition temperature:Not applicable.Decomposition temperature:Not available.SADT:Not available.Viscosity:Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Odour                     | :   | Characteristic.   |
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| Flash point       : Not available.         Burning time       : Not applicable.         Burning rate       : Not applicable.         Evaporation rate       : 0.36 (water) compared with butyl acetate         Flammability (solid, gas)       : Not applicable.         Lower and upper explosive<br>(flammable) limits       : 0.6 - 4.2%         Vapour pressure       : Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average:<br>3.01 kPa (22.58 mm Hg) (at 20°C)         Vapour density       : Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2<br>4-trimethyl-1,3-pentanediol).         Relative density       : 1.067 g/cm³         Solubility       : Easily soluble in the following materials: cold water and hot water.         Partition coefficient: n-<br>octanol/water       : Not available.         Auto-ignition temperature       : Not available.         SADT       : Not available.         Viscosity       : Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Melting point             | :   | 0   |
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| Flammability (solid, gas)       : Not applicable.         Lower and upper explosive       : 0.6 - 4.2%         (flammable) limits       : Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.01 kPa (22.58 mm Hg) (at 20°C)         Vapour density       : Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2 4-trimethyl-1,3-pentanediol).         Relative density       : 1.067 g/cm³         Solubility       : Easily soluble in the following materials: cold water and hot water.         Partition coefficient: n- octanol/water       : Not available.         Decomposition temperature       : Not available.         SADT       : Not available.         Viscosity       : Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)   | Burning rate              | :   | Not applicable.   |
| Lower and upper explosive<br>(flammable) limits: 0.6 - 4.2%Vapour pressure: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average:<br>3.01 kPa (22.58 mm Hg) (at 20°C)Vapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2<br>4-trimethyl-1,3-pentanediol).Relative density: 1.067 g/cm³Solubility: Easily soluble in the following materials: cold water and hot water.Partition coefficient: n-<br>octanol/water: Not available.Auto-ignition temperature: Not applicable.Decomposition temperature: Not available.SADT: Not available.Viscosity: Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Evaporation rate          | :   | 0.36 (water) compared with butyl acetate  |
| (flammable) limitsVapour pressure: Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average:<br>3.01 kPa (22.58 mm Hg) (at 20°C)Vapour density: Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2<br>4-trimethyl-1,3-pentanediol).Relative density: 1.067 g/cm³Solubility: Easily soluble in the following materials: cold water and hot water.Partition coefficient: n-<br>octanol/water: Not available.Auto-ignition temperature: Not applicable.SADT: Not available.Viscosity: Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Flammability (solid, gas) | :   | Not applicable.   |
| 3.01 kPa (22.58 mm Hg) (at 20°C)         Vapour density         Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2 4-trimethyl-1,3-pentanediol).         Relative density         Solubility         Partition coefficient: n- octanol/water         Auto-ignition temperature         Not available.         SADT         Viscosity         Viscosity         Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)   |                           | 1   | 0.6 - 4.2%  |
| 4-trimethyl-1,3-pentanediol).         Relative density         50lubility         2         Easily soluble in the following materials: cold water and hot water.         Partition coefficient: n-<br>octanol/water         Auto-ignition temperature         Not available.         Decomposition temperature         Not available.         SADT         Viscosity         Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Vapour pressure           | 1   |   |
| Solubility       : Easily soluble in the following materials: cold water and hot water.         Partition coefficient: n-<br>octanol/water       : Not available.         Auto-ignition temperature       : Not applicable.         Decomposition temperature       : Not available.         SADT       : Not available.         Viscosity       : Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Vapour density            | ;   |   |
| Partition coefficient: n-<br>octanol/water       : Not available.         Auto-ignition temperature       : Not applicable.         Decomposition temperature       : Not available.         SADT       : Not available.         Viscosity       : Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Relative density          | :   | 1.067 g/cm <sup>3</sup>   |
| octanol/water         Auto-ignition temperature       : Not applicable.         Decomposition temperature       : Not available.         SADT       : Not available.         Viscosity       : Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Solubility                | :   | Easily soluble in the following materials: cold water and hot water.            |
| Decomposition temperature       : Not available.         SADT       : Not available.         Viscosity       : Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  |                           | 1   | Not available.  |
| SADT: Not available.Viscosity: Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)  | Auto-ignition temperature | :   | Not applicable.   |
| Viscosity         : Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)   | Decomposition temperature | :   | Not available.  |
|  | SADT                      | :   | Not available.  |
| Date of issue : 27.12.2019   | Viscosity                 | :   | Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)                                    |
|  | Date of issue : 27.       | .12 | 2.2019  |

## Section 9. Physical and chemical properties

## 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<br>reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                   | : No specific data.   |
| Incompatible materials                | : Keep away from the following materials to prevent strong exothermic reactions:<br>oxidising agents, strong alkalis, strong acids. |
| Hazardous decomposition<br>products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                              |

Fine dust clouds may form explosive mixtures with air.

## Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name                               | Result                 | Species    | Dose                    | Exposure |
|---|------------------------|------------|-------------------------|----------|
| ammonia<br>3-iodo-2-propynyl<br>butylcarbamate (IPBC) | LD50 Oral<br>LD50 Oral | Rat<br>Rat | 350 mg/kg<br>1470 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name                    | Result | Species                            | Score | Exposure | Observation |
|--|--------|------------------------------------|-------|----------|-------------|
| 3-iodo-2-propynyl<br>butylcarbamate (IPBC) |        | Mammal -<br>species<br>unspecified | -     | -        | -           |

#### **Sensitisation**

| ····· • • • • • • • • • • • • • • • • •    | Route of exposure | Species                         | Result      |
|--|-------------------|---------------------------------|-------------|
| 3-iodo-2-propynyl<br>butylcarbamate (IPBC) | skin              | Mammal - species<br>unspecified | Sensitising |

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

| Name                                    |            | Route of exposure | Target organs |
|---|------------|-------------------|---------------|
| 3-iodo-2-propynyl butylcarbamate (IPBC) | Category 1 | Not determined    | trachea       |

#### Aspiration hazard

Not available.

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

## Section 11. Toxicological information

| Information on likely routes of exposure | : Not available.  |
|--|---|
| Potential acute health effects           | <u>2</u>  |
| Eye contact                              | : No known significant effects or critical hazards.             |
| Inhalation                               | : No known significant effects or critical hazards.             |
| Skin contact                             | : No known significant effects or critical hazards.             |
| Ingestion                                | : No known significant effects or critical hazards.             |
|  |   |
| Symptoms related to the phy              | vsical, chemical and toxicological characteristics              |
| Eye contact                              | : No specific data.   |
| Inhalation                               | : No specific data.   |
| Skin contact                             | : No specific data.   |
| Ingestion                                | : No specific data.   |
| Delaved and immediate effect             | ts 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<br>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.             |
| Mutagenicity                             | : No known significant effects or critical hazards.             |
| Teratogenicity                           | : No known significant effects or critical hazards.             |
| <b>Developmental effects</b>             | : No known significant effects or critical hazards.             |
| Fertility effects                        | : No known significant effects or critical hazards.             |
| Numerical measures of toxic              | ity   |

## Acute toxicity estimates

Not available.

## Section 12. Ecological information

#### **Toxicity Product/ingredient name** Result **Species** Exposure 3-iodo-2-propynyl Acute EC50 0.022 mg/l Algae - Scenedesmus 72 hours butylcarbamate (IPBC) subspicatus Acute EC50 0.16 mg/l Crustaceans - Daphnia magna 48 hours Acute LC50 0.067 mg/l Fish - Oncorhynchus mykiss 96 hours Chronic NOEC 70 ppb Fresh water Fish - Oncorhynchus mykiss -96 hours Juvenile (Fledgling, Hatchling, Weanling)

#### Persistence/degradability

| Date of issue |
|---------------|
|---------------|

Not available.

| Product/ingredient name                    | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| 3-iodo-2-propynyl<br>butylcarbamate (IPBC) | -                 | -          | Readily          |

#### **Bioaccumulative potential**

Not available.

# Mobility in soil Soil/water partition : Not available. 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.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation<br>and any regional local authority requirements. Dispose of surplus and non-<br>recyclable products via a licensed waste disposal contractor. Waste should not be<br>disposed of untreated to the sewer unless fully compliant with the requirements of<br>all authorities with jurisdiction. Waste packaging should be recycled. Incineration or<br>landfill should only be considered when recycling is not feasible. This material and<br>its container must be disposed of in a safe way. Care should be taken when<br>handling emptied containers that have not been cleaned or rinsed out. Empty |
|------------------|---|
|                  | handling emptied containers that have not been cleaned or rinsed out. Empty<br>containers or liners may retain some product residues. Avoid dispersal of spilt<br>material and runoff and contact with soil, waterways, drains and sewers.  |

## Section 14. Transport information

**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.

|                                    | UN  | IMDG  | ΙΑΤΑ  |
|------------------------------------|---|---|---|
| UN number                          | Not regulated.  | Not regulated.  | Not regulated.  |
| UN proper<br>shipping name         | -   | -   | -   |
| Transport hazard<br>class(es)      | -   | -   | -   |
| Packing group                      | -   | -   | -   |
| Environmental<br>hazards           | No.   | No.   | No.   |
| Special<br>precautions for<br>user | Transport within user's<br>premises: always transport in<br>closed containers that are<br>upright and secure. Ensure<br>that persons transporting the<br>product know what to do in the<br>event of an accident or<br>spillage. | Transport within user's<br>premises: always transport in<br>closed containers that are<br>upright and secure. Ensure<br>that persons transporting the<br>product know what to do in the<br>event of an accident or<br>spillage. | Transport within user's<br>premises: always transport in<br>closed containers that are<br>upright and secure. Ensure<br>that persons transporting the<br>product know what to do in the<br>event of an accident or<br>spillage. |
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## Section 14. Transport information

Additional information

## Section 15. Regulatory information

#### Safety, health and environmental regulations specific for the product:

#### Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Regulations on the Control over Safety of Dangerous Chemicals

Measures for Environmental Management of New Chemical Substances

Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes Safety regulations for the use of chemicals in the workplace

General Rule for Classification and Hazard Communication of Chemicals

Classification and code of dangerous goods

#### List of Goods banned for Importing

None of the components are listed.

#### List of Goods banned for Exporting

None of the components are listed.

#### List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

## Section 16. Other information

#### History

| motory               |   |
|----------------------|---|
| Date of printing     | : 27.12.2019  |
| Key to abbreviations | <ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous<br/>Goods by Inland Waterway<br/>ADR = The European Agreement concerning the International Carriage of<br/>Dangerous Goods by Road<br/>ATE = Acute Toxicity Estimate<br/>BCF = Bioconcentration Factor<br/>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br/>IATA = International Air Transport Association<br/>IBC = Internediate Bulk Container<br/>IMDG = International Maritime Dangerous Goods<br/>LogPow = logarithm of the octanol/water partition coefficient<br/>MARPOL = International Convention for the Prevention of Pollution From Ships,<br/>1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br/>RID = The Regulations concerning the International Carriage of Dangerous Goods<br/>by Rail<br/>UN = United Nations</li> </ul> |

#### 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 | : 27.12.20 |
|---------------|------------|
|               |            |