

## Majestic Optima

### Section 1. Identification

|                               |                     |
|-------------------------------|---------------------|
| GHS product identifier        | : Majestic Optima   |
| Other means of identification | : Not available.    |
| Product code                  | : 6260              |
| Product description           | : Waterborne paint. |
| Product type                  | : Liquid.           |

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

##### Identified uses

Use in coatings - Consumer use: Apply this product only as specified on the label.

|                            |   |
|----------------------------|---|
| Manufacturing country      | : Jotun (Cambodia) Limited<br>Oval Office Tower – 18th floor,<br>Street 360 (corner Norodom Boulevard), Sangkat Boeung Keng Kang I<br>Khan Chamkarmon, Phnom Penh, Cambodia.<br><br>Office: +855 78 755 755<br>SDSJotun@jotun.com |
| Emergency telephone number | : +47 33 45 70 00 Jotun Norway (head office)  |

### Section 2. Hazards identification

|  |  |
|--|--|
| Classification of the substance or mixture | : SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3 |
|--|--|

#### GHS label elements

|   |  |
|---|--|
| Hazard pictograms                                   | :  |
| Signal word   | : No signal word.  |
| Hazard statements                                   | : H402 - Harmful to aquatic life.  |
| Precautionary statements                            |  |
| General   | : P102 - Keep out of reach of children.  |
| Prevention  | : P273 - Avoid release to the environment.   |
| Response  | : Not applicable.  |
| Storage   | : Not applicable.  |
| Disposal  | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Other hazards which do not result in classification | : None known.  |

## Section 3. Composition/information on ingredients

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

### CAS number/other identifiers

CAS number : Not applicable.  
 EC number : Mixture.  
 Product code : 6260

| Ingredient name                         | %       | CAS number |
|---|---------|------------|
| 3-iodo-2-propynyl butylcarbamate (IPBC) | <0.1    | 55406-53-6 |
| C(M)IT/MIT (3:1)                        | <0.0025 | 55965-84-9 |

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

- 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.

#### Over-exposure signs/symptoms

- Eye contact : No specific data.  
 Inhalation : No specific data.  
 Skin contact : No specific data.  
 Ingestion : No specific data.

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

## Section 4. First aid measures

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : 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.

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. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
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 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. 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). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. 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.

## Section 6. Accidental release measures

- 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 Section 13 for waste disposal.

## Section 7. Handling and storage

- Precautions for safe handling** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in 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. 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

None.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the 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 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: safety glasses with side-shields.

#### Skin protection

## Section 8. Exposure controls/personal protection

- 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.
- 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: nitrile rubber, neoprene, PVC
- 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.
- 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.
- If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. By spraying : particulate filter (FFP2 / N95). In confined spaces, use compressed-air or fresh-air respiratory equipment.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Colour** : Various
- Odour** : Characteristic.
- Odour threshold** : Not available.
- pH** : 8-9
- Melting point** : 0
- Boiling point** : Lowest known value: 100°C (212°F) (water). Weighted average: 103.55°C (218.4°F)
- Flash point** : Closed cup: Not applicable.
- 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 (flammable) limits** : 0.6 - 4.2%
- Vapour pressure** : Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.13 kPa (23.48 mm Hg) (at 20°C)
- Vapour density** :

## Section 9. Physical and chemical properties

|  |   |
|--|---|
|  | Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol). |
| Relative density                           | : 1.16 to 1.28 g/cm <sup>3</sup>  |
| Solubility                                 | : Easily soluble in the following materials: cold water and hot water.  |
| Partition coefficient: n-octanol/<br>water | : Not available.  |
| Auto-ignition temperature                  | : Not applicable.   |
| Decomposition temperature                  | : Not available.  |
| SADT                                       | : Not available.  |
| Viscosity                                  | : Kinematic (40°C): >0.205 cm <sup>2</sup> /s (>20.5 mm <sup>2</sup> /s)  |
| <a href="#">Aerosol product</a>            |   |

## 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                | : No specific data.  |
| 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.                           |

## Section 11. Toxicological information

### [Information on toxicological effects](#)

#### [Acute toxicity](#)

| Product/ingredient name                 | Result    | Species | Dose       | Exposure |
|---|-----------|---------|------------|----------|
| 3-iodo-2-propynyl butylcarbamate (IPBC) | LD50 Oral | Rat     | 1470 mg/kg | -        |
| C(M)IT/MIT (3:1)                        | LD50 Oral | Rat     | 53 mg/kg   | -        |

#### [Irritation/Corrosion](#)

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

#### [Sensitisation](#)

| Product/ingredient name                                     | Route of exposure | Species                      | Result      |
|---|-------------------|------------------------------|-------------|
| 3-iodo-2-propynyl butylcarbamate (IPBC)<br>C(M)IT/MIT (3:1) | skin              | Mammal - species unspecified | Sensitising |
|   | skin              | Mammal - species unspecified | Sensitising |

#### [Mutagenicity](#)

Not available.

#### [Carcinogenicity](#)

Not available.

#### [Reproductive toxicity](#)

Not available.

#### [Teratogenicity](#)

Not available.

## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

| Name                                    | Category   | Route of exposure | Target organs |
|---|------------|-------------------|---------------|
| 3-iodo-2-propynyl butylcarbamate (IPBC) | Category 1 | -                 | trachea       |

### Aspiration hazard

Not available.

### Potential acute health effects

|              |   |
|--------------|---|
| 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 physical, chemical and toxicological characteristics

|              |                     |
|--------------|---------------------|
| Inhalation   | : No specific data. |
| Ingestion    | : No specific data. |
| Skin contact | : No specific data. |
| Eye contact  | : No specific data. |

### Potential chronic health effects

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

Not available.

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                 | Result                          | Species  | Exposure |
|---|---------------------------------|--|----------|
| 3-iodo-2-propynyl butylcarbamate (IPBC) | Acute EC50 0.022 mg/l           | Algae - Scenedesmus subspicatus  | 72 hours |
|   | 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 - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| C(M)IT/MIT (3:1)                        | Acute EC50 0.048 mg/l           | Algae - Pseudokirchneriella subcapitata                                | 72 hours |
|   | Acute EC50 0.0052 mg/l          | Algae - Skeletonema costatum   | 48 hours |
|   | Acute EC50 0.1 mg/l             | Daphnia - Daphnia magna  | 48 hours |
|   | Acute LC50 0.22 mg/l            | Fish - Oncorhynchus mykiss   | 96 hours |
|   | Acute NOEC 0.00064 mg/l         | Algae - Skeletonema costatum   | 48 hours |
|   | Chronic NOEC 0.0012 mg/l        | Algae - Pseudokirchneriella  | 72 hours |

## Section 12. Ecological information

|  |  |  |                    |
|--|--|--|--------------------|
|  | Chronic NOEC 0.004 mg/l<br>Chronic NOEC 0.098 mg/l | subcapitata<br>Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss | 21 days<br>28 days |
|--|--|--|--------------------|

### Persistence and degradability

| Product/ingredient name                 | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| 3-iodo-2-propynyl butylcarbamate (IPBC) | -                 | -          | Readily          |
| C(M)IT/MIT (3:1)                        | -                 | -          | Not readily      |

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF  | Potential |
|-------------------------|--------------------|------|-----------|
| C(M)IT/MIT (3:1)        | -                  | 3.16 | low       |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | UN             | IMDG           | IATA           |
|----------------------------|----------------|----------------|----------------|
| UN number                  | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -              | -              | -              |
| Transport hazard class(es) | -              | -              | -              |
| Packing group              | -              | -              | -              |
| Environmental hazards      | No.            | No.            | No.            |
|                            |                |                |                |



## Section 14. Transport information

|  |   |   |   |
|--|---|---|---|
| <a href="#">Special precautions for user</a> | <b>Transport within user's premises:</b> 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. | <b>Transport within user's premises:</b> 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. | <b>Transport within user's premises:</b> 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. |
| <a href="#">Additional information</a>       | -   | -   | -   |

[Transport in bulk according to Annex II of Marpol and the IBC Code](#) : Not available.  
[ADR / RID](#)

## Section 15. Regulatory information

[Hazardous Substance Act B.E. 2535 \(1992\)](#)

[Type](#)

[Ingredient name](#)

[Type](#)

[Authority](#)

[Conditions](#)

No known specific national and/or regional regulations applicable to this product (including its ingredients).

## Section 16. Other information

### [History](#)

[Date of printing](#) : 03.06.2021

[Date of issue/Date of revision](#) : 03.06.2021

[Date of previous issue](#) : 27.11.2019

[Version](#) : 1.07

[Key to abbreviations](#) :

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- 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
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- UN = United Nations
- LogPow = logarithm of the octanol/water partition coefficient

[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.

## Section 16. Other information

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