SAFETY DATA SHEET

JOTUN

Jotun Protects Property



| Section 1. Identification | | |
|---|---|--|
| GHS product identifier | : Jotaprime PP10 | |
| Other means of identification | : Not available. | |
| Product code | : 26540 | |
| Product description | : Paint. | |
| Product type | : Liquid. | |
| Use in coatings - Industrial us Use in coatings - Professional | | |
| Manufacturing country | : Jotun Thailand Limited 700/353 Amata Nakorn Industrial Estate (BIP 2) Moo 6, Tumbol Donhualoh, Amphur Muang Chonburi Chonburi 20000 Thailand | |
| | Phone: + 66 2 022 9888 Fax: + 66 2 022 9888 , + 66 38 214 375 | |
| | SDSJotun@jotun.com | |
| | | |

| Emergency telephone number | 1 | Jotun Thailand Limited |
|----------------------------|---|--|
| | | Phone: + 66 2 022 9888 ext. 2100, 2400, 2402 |

Section 2. Hazards identification

| Classification of the substance or mixture | : FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A |
|--|--|
| GHS label elements | |
| Hazard pictograms | |
| Signal word | : Warning. |
| Hazard statements | : H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. |
| Precautionary statements | • |
| Prevention | P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Response | P362 - Take off contaminated clothing and wash before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| Storage | : P403 + P235 - Store in a well-ventilated place. Keep cool. |
| Date of issue | : 04.05.2021 1/10 |

Section 2. Hazards identification

Disposal

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

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

Section 3. Composition/information on ingredients

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

| CAS number/other identifiers | | |
|------------------------------|---|-----------------|
| CAS number | : | Not applicable. |
| EC number | 1 | Mixture. |
| Product code | 1 | 26540 |
| Ingredient name | | |
| valene | | |

| Ingredient name | % | CAS number |
|------------------|-----------|------------|
| xylene | ≥10 - <20 | 1330-20-7 |
| ethylbenzene | <10 | 100-41-4 |
| 2-butanone oxime | ≤0.3 | 96-29-7 |

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.

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 not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. 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

| Date of issue | : 04.05.2021 | 2/10 |
|--------------------------------|---|------|
| Skin contact | : Causes skin irritation. | |
| Inhalation | : No known significant effects or critical hazards. | |
| Eye contact | : Causes serious eye irritation. | |
| Potential acute health effects | | |
| moor important oymptomo/onot | to, douto and dolayou | |

Section 4. First aid measures

| Ingestion | No known significant effects or critical hazards. |
|---------------------------------|--|
| Over-exposure signs/symptom | |
| Eye contact | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | No specific data. |
| Skin contact | Adverse symptoms may include the following: irritation redness |
| Ingestion | No specific data. |
| Indication of immediate medical | ention 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 | 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 | Jse dry chemical, CO ₂ , water spray (fog) or foam. | |
| Unsuitable extinguishing media | Do not use water jet. | |
| Specific hazards arising from the chemical | Flammable liquid and vapour. Runoff to sewer may create fire or explosion h n a fire or if heated, a pressure increase will occur and the container may bur he risk of a subsequent explosion. | |
| Hazardous thermal decomposition products | Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides | |
| Special protective actions for fire-fighters | Promptly isolate the scene by removing all persons from the vicinity of the inc here 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 ri Jse water spray to keep fire-exposed containers cool. | |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained preathing apparatus (SCBA) with a full face-piece operated in positive pressu mode. | |

Section 6. Accidental release measures

| Personal precautions, protectiv | ve 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". |

Section 6. Accidental release measures

| 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 con | tainment and cleaning up |
| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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 |
|-------------------------------------|--|---|
| xylene ethylbenzene | | Ministry of Labor (Thailand, 8/2017). TWA: 100 ppm 8 hours. Ministry of Labor (Thailand, 8/2017). TWA: 100 ppm 8 hours. |
| Recommended monitoring procedures | of the ventilation or other control mea protective equipment. Reference sho | nay be required to determine the effectiveness sures and/or the necessity to use respiratory build be made to appropriate monitoring dance documents for methods for the |
| Appropriate engineering controls | contaminants below any recommende | ols to keep worker exposure to airborne ed or statutory limits. The engineering controls t concentrations below any lower explosive |

Section 8. Exposure controls/personal protection

| 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 | : | 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. May be used, gloves(breakthrough time) 4 - 8 hours: neoprene, butyl rubber, PVC Recommended, gloves(breakthrough time) > 8 hours: 4H, Teflon, polyvinyl alcohol (PVA), nitrile rubber, fluor rubber |
| 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. |
| | | If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter. |

Section 9. Physical and chemical properties

| Appearance | | |
|--|---|---|
| Physical state | : | Liquid. |
| Colour | 1 | Various colours. |
| Odour | 1 | Characteristic. |
| Odour threshold | 1 | Not available. |
| рН | 1 | Not applicable. |
| Melting point | 1 | Not applicable. |
| Boiling point | : | Lowest known value: 136.1°C (277°F) (ethylbenzene). Weighted average: 136.14°C (277.1°F) |
| Flash point | 1 | Closed cup: 25°C (77°F) |
| Burning time | 1 | Not applicable. |
| Burning rate | : | Not applicable. |
| Evaporation rate | : | Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared with butyl acetate |
| Flammability (solid, gas) | 1 | Not applicable. |
| Lower and upper explosive (flammable) limits | 1 | 0.8 - 6.7% |
| Vapour pressure | 1 | Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.97 kPa (7.28 mm Hg) (at 20°C) |
| Vapour density | : | Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.7 (Air = 1) |
| Relative density | 1 | 1.57 to 1.593 g/cm ³ |
| Solubility | 1 | Insoluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/ water | 1 | Not available. |
| Auto-ignition temperature | 1 | Lowest known value: 432°C (809.6°F) (xylene). |
| Decomposition temperature | 1 | Not available. |
| SADT | : | Not available. |
| Viscosity | : | Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s) |
| Aerosol product | | |
| | | |

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. |
| 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

Section 11. Toxicological information

| | 0 | | | |
|-------------------------|--|---------------------------------------|--------------------------|--|
| Product/ingredient name | Result | Species | Dose | Exposure |
| xylene ethylbenzene | LC50 Inhalation Vapour LD50 Oral TDLo Dermal LC50 Inhalation Vapour LD50 Dermal LD50 Oral | Rat Rabbit Rat - Male Rabbit | 4300 mg/kg 4300 mg/kg | 4 hours - - 4 hours - - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|----------------------------|--|-------------------------|-------|--|-------------|
| xylene 2-butanone oxime | Eyes - Mild irritant Skin - Mild irritant Eyes - Severe irritant | Rabbit Rat Rabbit | - | 87 milligrams 8 hours 60 microliters 100 microliters | |

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|---------------------------------|-------------|
| 2-butanone oxime | skin | Mammal - species unspecified | Sensitising |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | - 5 7 | Route of exposure | Target organs |
|--------|------------|-------------------|------------------------------|
| xylene | Category 3 | | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Name | - 3 7 | Route of exposure | Target organs |
|--------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

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

Potential acute health effects

| Eye contact | : Causes serious eye irritation. |
|--------------|---|
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : Causes skin irritation. |
| 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. |

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

Section 11. Toxicological information

| Skin contact | : | Adverse symptoms may include the following: irritation redness |
|---------------------------------|----------|--|
| Eye contact | : | Adverse symptoms may include the following: pain or irritation watering redness |
| Potential chronic health effect | <u>s</u> | |
| 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

| Route | ATE value |
|----------------------|--------------|
| Dermal | 6617.9 mg/kg |
| Inhalation (vapours) | 87.54 mg/l |

Section 12. Ecological information

<u>Toxicity</u>

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|----------------------|---------|----------|
| ethylbenzene | Acute EC50 7.2 mg/l | Algae | 48 hours |
| | Acute EC50 2.93 mg/l | Daphnia | 48 hours |
| | Acute LC50 4.2 mg/l | Fish | 96 hours |

Persistence and degradability

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

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| xylene | 3.6 | 8.1 to 25.9 | low |
| ethylbenzene | | - | low |
| 2-butanone oxime | | 2.5 to 5.8 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc})

: 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| | • | | |
|---------------------------------|---|---|---|
| | UN | IMDG | ΙΑΤΑ |
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | Paint | Paint | Paint |
| Transport hazard class(es) | 3 | 3 | 3 |
| Packing group | Ш | Ш | Ш |
| Environmental hazards | No. | No. | No. |
| 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 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 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. |
| Additional information | - | Emergency schedules F-E, <u>S-E</u> | - |

Transport in bulk according to Annex II of Marpol and the IBC Code ADR / RID : Tunnel restrictio

: Tunnel restriction code: (D/E)

Hazard identification number: 30

Section 15. Regulatory information

Hazardous Substance Act B.E. 2535 (1992)

<u>Type</u>

Ingredient name

<u>Type</u>

Authority

Conditions

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

Section 16. Other information

| <u>History</u> | | |
|--------------------------------|---|--|
| Date of printing | : | 04.05.2021 |
| Date of issue/Date of revision | : | 04.05.2021 |
| Date of previous issue | : | 04.05.2021 |
| Version | : | 1.08 |
| 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 = Internediate 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.

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