# SAFETY DATA SHEET



# Jotatemp 250 Comp B

Section 1. Identification		
GHS product identifier	: Jotatemp 250 Comp B	
Product code	: 32223	
Product description	: Hardener.	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Use in coatings - Industrial u	ISE	
Use in coatings - Profession	al use	
Supplier's details	: Jotun Paints Inc. 842 W. Sam Houston Parkway North City Center Three, Suite 300 Houston, TX 77024 USA Phone number: +1 (713) 860-8241 SDSJotun@jotun.com	
Emergency telephone number (with hours of operation)	: 1-800-424-9300 (Staffed 24/7)	

### Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Star (29 CFR 1910.1200).	ndard
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2</li> </ul>	
GHS label elements		
Hazard pictograms		
Signal word	: Danger.	
Hazard statements	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H302 - Harmful if swallowed.</li> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure. (h organs, kidneys, liver)</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>	nearing
Precautionary statements		
Date of issue	:13.09.2023	1/16

### Section 2. Hazards identification

Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor or spray.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.</li> <li>P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.</li> <li>Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.</li> <li>P363 - Wash contaminated clothing before reuse.</li> </ul>
	P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

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

#### **CAS number/other identifiers**

CAS number	: Not applicable.
Product code	: 32223

Ingredient name	%	CAS number
formaldehyde, polymer with benzenamine, hydrogenated	≥25 - ≤50	135108-88-2
benzyl alcohol	≥25 - ≤38	100-51-6
xylene	≥10 - ≤15	1330-20-7
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis (methylamine)	≤10	57214-10-5
m-xylene-alpha,alpha'-diamine	<5	1477-55-0
ethylbenzene	≤5	100-41-4
cyclohexanamine, 4,4'-methylenebis-	≤3	1761-71-3
salicylic acid	≤3	69-72-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 necess	ary first aid measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

Potential acute health et	ffects
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Date of issue	:13.09.2023

### Section 4. First aid measures

Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. 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 nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

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

### Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

### Precautions for safe handling

Protective measures	t on appropriate personal protective equipment (see Section 8). Perso story of skin sensitization problems should not be employed in any proce- s product is used. Avoid exposure - obtain special instructions before up posure during pregnancy. Do not handle until all safety precautions had d understood. Do not get in eyes or on skin or clothing. Do not breather o not ingest. Avoid release to the environment. Use only with adequate ear appropriate respirator when ventilation is inadequate. Do not enter d confined spaces unless adequately ventilated. Keep in the original co proved alternative made from a compatible material, kept tightly closed e. Store and use away from heat, sparks, open flame or any other ignit e explosion-proof electrical (ventilating, lighting and material handling) e only non-sparking tools. Take precautionary measures against elect scharges. Empty containers retain product residue and can be hazardo use container.	ess in which use. Avoid ve been read e vapor or mist. ventilation. storage areas ontainer or an when not in ion source. equipment. rostatic
Advice on general occupational hygiene	ting, drinking and smoking should be prohibited in areas where this mandled, stored and processed. Workers should wash hands and face be nking and smoking. Remove contaminated clothing and protective equ tering eating areas. See also Section 8 for additional information on hy easures.	efore eating, ipment before
Conditions for safe storage, including any incompatibilities	bre in accordance with local regulations. Store in a segregated and approve in original container protected from direct sunlight in a dry, cool and ea, away from incompatible materials (see Section 10) and food and dricked up. Eliminate all ignition sources. Separate from oxidizing materia ntainer tightly closed and sealed until ready for use. Containers that has ened must be carefully resealed and kept upright to prevent leakage. I labeled containers. Use appropriate containment to avoid environment ntamination. See Section 10 for incompatible materials before handling.	well-ventilated nk. Store als. Keep ve been Do not store in al

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
formaldehyde, polymer with benzenamine, hydrogenated	None
benzyl alcohol	OARS WEEL (United States, 4/2022).
	TWA: 10 ppm 8 hours.
xylene	ACGIH TLV (United States, 1/2022).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.

#### Jotatemp 250 Comp B

## Section 8. Exposure controls/personal protection

	OSHA PEL 1989 (United States, 3/1989). STEL: 655 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 435 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
Formaldehyde, oligomeric reaction products with phenol and m- phenylenebis(methylamine) m-xylene-alpha,alpha'-diamine	None ACGIH TLV (United States, 1/2022).
	Absorbed through skin. C: 0.018 ppm OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.
	CEIL: 0.1 mg/m <sup>3</sup> NIOSH REL (United States, 10/2020). Absorbed through skin. CEIL: 0.1 mg/m <sup>3</sup> CAL OSHA PEL (United States, 5/2018).
	Absorbed through skin. C: 0.1 mg/m <sup>3</sup>
ethylbenzene	OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m <sup>3</sup> 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 435 mg/m <sup>3</sup> 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m <sup>3</sup> 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2022). Ototoxicant. Notes: K TWA: 20 ppm 8 hours. Form:
cyclohexanamine, 4,4'-methylenebis- salicylic acid	None None

#### **Biological exposure indices**

No exposure indices known.

Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 measure	
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
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 ISO 374-1:2016.
	Recommended, gloves(breakthrough time) > 8 hours: Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm) May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber (> 0.4 mm), nitrile rubber (> 0.75 mm), neoprene (> 0.35 mm), PVC (> 0.5 mm)
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	<ul> <li>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.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

Date of issue	: 13.09.2023 <b>7/16</b>
Evaporation rate	: Highest known value: 0.84 (ethylbenzene) Weighted average: 0.28compared with butyl acetate
Flash point	: Closed cup: 26°C (78.8°F)
Boiling point	<ul> <li>Lowest known value: 136.1°C (277°F) (ethylbenzene). Weighted average: 212.63°C (414.7°F)</li> </ul>
Melting point	: Not applicable.
рН	: Not applicable.
Odor threshold	: Not applicable.
Odor	: Characteristic.
Color	: Colorless.
Physical state	: Liquid.
Appearance	

### Section 9. Physical and chemical properties

•	• •
Flammability (solid, gas)	: Not applicable.
Lower and upper explosive (flammable) limits	: 0.8 - 13%
Vapor pressure	: Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.19 kPa (1.43 mm Hg) (at 20°C)
Vapor density	: Highest known value: 3.7 (Air = 1) (benzyl alcohol). Weighted average: 3.7 (Air = 1)
Relative density	: 1.028 g/cm <sup>3</sup> 8.58 pounds/gallon
Solubility(ies)	:
Media	Result
cold water hot water	Not soluble Not soluble
Partition coefficient: n-	: Not available.

octanol/water	
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
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
formaldehyde, polymer with benzenamine, hydrogenated	LD50 Oral	Rat	300 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
xylene	LC50 Inhalation Vapor	Rat	20 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
m-xylene-alpha,alpha'- diamine	LD50 Oral	Rat	980 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat - Male	17.8 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 3500 mg/kg	-

#### Irritation/Corrosion

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
m-xylene-alpha,alpha'- diamine	Eyes - Severe irritant	Rabbit	-	24 hours 50 µg	-
	Skin - Severe irritant	Rabbit	-	24 hours 750 µg	-
cyclohexanamine, 4,4'- methylenebis-	Eyes - Severe irritant	Rabbit	-	24 hours 10 microliters	-
salicylic acid	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
m-xylene-alpha,alpha'- diamine	skin	Mammal - species unspecified	Sensitizing
cyclohexanamine, 4,4'- methylenebis-	skin	Mammal - species unspecified	Sensitizing

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
salicylic acid	-	-	Positive	Rat	Oral: 150 mg/kg	-

#### **Teratogenicity**

Not available.

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

Name	• •	Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation

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

Name	Category	Route of exposure	Target organs
formaldehyde, polymer with benzenamine, hydrogenated	Category 2	oral	kidneys
ethylbenzene	Category 2	-	hearing organs
cyclohexanamine, 4,4'-methylenebis-	Category 2	-	liver

#### **Aspiration hazard**

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

:13.09.2023

# Section 11. Toxicological information

Information on the likely	. Net eveileble
Information on the likely routes of exposure	: Not available.
Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe Not available.	ects
General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

### Numerical measures of toxicity Acute toxicity estimates

J	otatemp 250 Comp B					
S	Section 11. Toxicological information					
	Route	ATE value				
	Dermal	658.83 mg/kg 8453.41 mg/kg 23.53 mg/l				

# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis (methylamine)	Acute LC50 25.9 mg/l	Fish	96 hours
m-xylene-alpha,alpha'- diamine	Acute EC50 12 mg/l	Algae	72 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
-	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours
cyclohexanamine, 4,4'- methylenebis-	Acute EC50 6.84 mg/l	Daphnia	48 hours
-	Acute IC50 140 mg/l	Algae	72 hours
	Acute LC50 46 mg/l	Fish	96 hours
salicylic acid	Acute LC50 32 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia longispina - Neonate	21 days

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol xylene ethylbenzene cyclohexanamine, 4,4'- methylenebis-	- - - -		Readily Readily Readily Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential	
formaldehyde, polymer with	-	209 to 219	low	
benzenamine, hydrogenated				
benzyl alcohol	0.87	<100	low	
xylene	3.12	8.1 to 25.9	low	
m-xylene-alpha,alpha'-	0.18	2.69	low	
diamine				
ethylbenzene	3.6	-	low	
cyclohexanamine, 4,4'-	2.03	-	low	
methylenebis-				
salicylic acid	2.21 to 2.26	-	low	

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

### Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
Xylene	1330-20-7	Listed	U239

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN3469	UN3469	UN3469	UN3469	UN3469	UN3469
UN proper shipping name	Paint, flammable, corrosive	Paint, flammable, corrosive	Paint, flammable, corrosive	Paint, flammable, corrosive	Paint, flammable, corrosive	Paint, flammable, corrosive
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)	3 (8)	3 (8)
Packing group	Ш	Ш	Ш	Ш	Ш	Ш
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

### Section 14. Transport information

•		
DOT Classification	:	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of $\leq 5$ L or $\leq 5$ kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. <b>Reportable quantity</b> 768.49 lbs / 348.9 kg [89.658 gal / 339.39 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
TDG Classification	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.
Mexico Classification	1	-
ADR/RID	:	Tunnel restriction code: (D/E) Hazard identification number: 38
IMDG	:	Emergency schedules (EmS): F-E, S-C Marine pollutant: Yes.
ΙΑΤΑ	:	The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precautions for user	:	<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.
Transport in bulk according to IMO instruments	:	Not available.

### Section 15. Regulatory information

**U.S. Federal regulations** : Clean Water Act (CWA) 307: ethylbenzene

Clean Water Act (CWA) 311: xylene; ethylbenzene

#### Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

Ingredient name	CAS number %		
xylene ethylbenzene	1330-20-713.012100-41-44.3375		
Clean Air Act Section 602 Class I Substances	: Not listed		
Clean Air Act Section 602 Class II Substances	: Not listed		
DEA List I Chemicals (Precursor Chemicals)	: Not listed		
DEA List II Chemicals (Essential Chemicals)	: Not listed		
<u>SARA 302/304</u>			
Composition/information	on ingredients		
No products were found.			
SARA 304 RQ	: Not applicable.		
<u>SARA 311/312</u>			
Classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - C	category 2	
Composition/information	<u>on ingreaients</u>		
Date of issue	: 13.09.2023	13	3/16

### Section 15. Regulatory information

Name	%	Classification
formaldehyde, polymer with	≥25 - ≤50	ACUTE TOXICITY (oral) - Category 3
benzenamine, hydrogenated		SKIN CORROSION - Category 1C
bonzonamino, nyarogonatoa		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
benzyl alcohol	≥25 - ≤38	ACUTE TOXICITY (oral) - Category 4
	-20 -00	ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
xylene	≥10 - ≤15	FLAMMABLE LIQUIDS - Category 3
xylerie	= 10 - = 10	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
m-xylene-alpha,alpha'-diamine	<5	ACUTE TOXICITY (oral) - Category 4
	-5	ACUTE TOXICITY (inhalation) - Category 4
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
		SENIOUS ETE DAMAGE - Calegory 1 SKIN SENSITIZATION - Category 1B
ethylbenzene	≤5	FLAMMABLE LIQUIDS - Category 2
etityiberizerie	20	ACUTE TOXICITY (inhalation) - Category 4
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
cyclohexanamine, 4,4'-	≤3	ACUTE TOXICITY (oral) - Category 4
methylenebis-	20	SKIN CORROSION - Category 1B
memylenebis-		SERIOUS EYE DAMAGE - Category 1
		SENIOUS ETE DAMAGE - Calegory 1 SKIN SENSITIZATION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
salicylic acid	≤3	ACUTE TOXICITY (oral) - Category 4
	-0	SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
		I ONIC TO REPRODUCTION - Galegui y 2

#### <u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements			≥10 - ≤15 ≤5
Supplier notification			≥10 - ≤15 ≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations** 

Massachusetts	<ul> <li>The following components are listed: BENZYL ALCOHOL; XYLENE; M-XYLENE- ALPHA, ALPHA'-DIAMINE; ETHYL BENZENE</li> </ul>
New York	: The following components are listed: Xylene mixed; Ethylbenzene
New Jersey	<ul> <li>The following components are listed: XYLENES; m-XYLENE alpha, alpha'-DIAMINE; ETHYL BENZENE</li> </ul>
Pennsylvania	: The following components are listed: BENZENEMETHANOL; BENZENE, DIMETHYL-; 1,3-BENZENED, IMETHANAMINE; BENZENE, ETHYL-

#### California Prop. 65

**WARNING**: This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### Section 15. Regulatory information

Ingredient name	Cancer		level	Maximum acceptable dosage level
ethylbenzene	Yes.	No.	Yes.	-

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

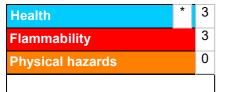
Not listed.

#### International lists

: Not determined.
: Not determined.
: Not determined.
<ul><li>Not determined.</li><li>Not determined.</li></ul>
: Not determined.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

### Section 16. Other information



#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION - Category 1B	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method
History	

HISTORY	
Date of printing	: 13.09.2023
Date of issue/Date of revision	: 13.09.2023
Date of previous issue	: 17.10.2022
Version	: 1.07
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
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.

Sers 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.