



Penguard Universal Comp B

Section 1. Identi	fication
GHS product identifier	: Penguard Universal Comp B
Product code	: 27801
Other means of identification	: Not available.
Product type	: Liquid.
Product description	: Hardener.
Relevant identified uses o Use in coatings - Industria Use in coatings - Profess	
Supplier's details	 : 佐敦涂料(张家港)有限公司 江苏省张家港保税区扬子江化学工业园长江路15号 215634 电话: +86 512 58937988 传真: +86 512 58937986 Jotun Coatings (Zhangjiagang) Co. Ltd
	No.15 Changjiang Road Jiangsu Yangtze River International Chemical Industry Park, Zhangjiagang Free Trade Zone, Jiangsu Province 215634 Tel: +86 512 58937988 Fax: +86 512 58937986
	Jotun Paints (Malaysia) Sdn Bhd, Lot 7 Persiaran Perusahaan, Section 23 40300 SHAH ALAM, Selangor Darul Ehsan Malaysia Tel: +603 51235500 Fax: +603 51235599
	SDSJotun@jotun.com
Emergency telephone number (with hours of operation)	: Jotun Coatings (Taiwan) Ltd. Co. Tel: +886 2 87705061
Section 2. Hazar	ds identification
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5

re ACUTE TOXICITY (dermal) - Category 5 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 AQUATIC TOXICITY (CHRONIC) - Category 3

GHS label elements Hazard pictograms



Section 2. Hazards identification

Signal word	: Danger.
Hazard statements	 H226 - Flammable liquid and vapour. H313 - May be harmful in contact with skin. H315 - Causes skin irritation. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H412 - Harmful to aquatic life with long lasting effects.
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. P273 - Avoid release to the environment. P261 - Avoid breathing vapour.
Response	 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. 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 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
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	: Not available.
identification	

Product name	% (w/w)	CAS number	Туре
xylene	≥10 - ≤25	1330-20-7	[1] [2]
ethylbenzene	<10	100-41-4	[1] [2]
butan-1-ol	<10	71-36-3	[1] [2]
产品名称	% (w/w)	CAS号码	类型
二甲苯	≥10 - ≤25	1330-20-7	[1] [2]
乙苯	<10	100-41-4	[1] [2]
1-丁醇	<10	71-36-3	[1] [2]

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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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. Flush contaminated skin with plenty of 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. 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 eff	<u>ects</u>	
Eye contact	: Causes serious eye damage.	
Inhalation	: May cause respiratory irritation.	
Skin contact	: May be harmful in contact with skin. Causes skin irritation.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/syn	<u>iptoms</u>	
Eye contact	: Adverse symptoms may include the following: pain watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing	
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Ingestion	: Adverse symptoms may include the following: stomach pains	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	: 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.	

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3/12

Section 4. First aid measures

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)

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Extinguishing media	
Suitable extinguishing media	: Use 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 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 harmful 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	:	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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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. 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.

Section 6. Accidental release measures

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		
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name			Exposure limits	
xylene			-	m³ 15 minutes. 5 minutes. 8 hours.
ethylbenzene			TW Minstry of Lal	bor, labor permissible ure standards, allowable liwan, 3/2018). 5 minutes. m ³ 15 minutes. hours.
butan-1-ol			TW Minstry of Lal	bor, labor permissible ure standards, allowable
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Biological exposure indices

Section 8. Exposure controls/personal protection

concentration (Taiwan, 3/2018).
STEL: 378.75 mg/m ³ 15 minutes.
STEL: 125 ppm 15 minutes.
TWA: 303 mg/m ³ 8 hours.
TWA: 100 ppm 8 hours.

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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measure	<u>s</u>
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.
Hand protection	 There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. Wear suitable gloves tested to ISO 374-1:2016. May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), Viton® (> 0.7 mm) Not recommended, gloves(breakthrough time) > 8 hours: 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), nitrile rubber (> 0.4 mm), polyvinyl alcohol (PVA) (> 0.3 mm)
	For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Eye protection	: Safety eyewear complying to ISO 16321-1:2022 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.
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.

Section 8. Exposure controls/personal protection

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.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: Not available.
рН	: Not applicable.
Melting point/freezing point	: Not applicable.
Boiling point, initial boiling point, and boiling range	: >100°C (>212°F)
Flash point	: Closed cup: 28°C (82.4°F)
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: 0.8 - 11.3%

t

Vapour pressure

		Vapour Pres	sure at 20°C	V	apour pre	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
ethylenediamine	10.5	1.4				
ethylbenzene	9.3	1.2				
butan-1-ol	<7.5	<1	DIN EN 13016-2			
xylene	6.7	0.89				
Relative vapour density	: Not a	available.				
Density	: 0.96	g/cm³				
Solubility(ies)	:					
Media		Result				
cold water hot water		Not soluble Not soluble				
Partition coefficient: n- octanol/water	: Not a	applicable.				
Auto-ignition temperature	:					
Ingredient name		°C	°F	M	ethod	
butan-1-ol		355	671	EL	J A.15	
ethylenediamine		405	761	DI	N 51794	
xylene		432	809.6			
ethylbenzene		432.22	810			
Decomposition temperature	Not a	available.	·	•		
Viscosity	: Kine	matic (40°C (1	04°F)): >20.5 mm ² /s	s (>20.5 cSt)		
Particle characteristics Median particle size	: Not a	applicable.				

Section 10. Stability and reactivity

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	: Reactive or incompatible with the following materials: oxidising 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
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
-	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rat	-	87 milligrams 8 hours 60 microliters	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result	
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

Information on likely routes of exposure	:	Not available.
Potential acute health effects	5	
Eye contact	:	Causes serious eye damage.
Inhalation	:	May cause respiratory irritation.
Skin contact	:	May be harmful in contact with skin. Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

<u>Short term exposure</u>	
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	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (dusts and mists) (mg/l)
Penguard Universal Comp B xylene ethylbenzene butan-1-ol	7291.3 N/A N/A 500	4702.0 1100 N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
ethylbenzene	Acute LC50 13400 μg/l Fresh water Acute EC50 7700 μg/l Marine water Acute EC50 2.93 mg/l Acute LC50 4.2 mg/l	Fish - Pimephales promelas Algae - Skeletonema costatum Daphnia Fish	96 hours 96 hours 48 hours 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	3.12	-	low
ethylbenzene	3.6		low
butan-1-ol	1		low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	Paint	Paint	Paint
Transport hazard class(es)	3	3	3
Packing group			
Environmental hazards	No.	No.	No.

IMDG : Emergency schedules F-E, S-E

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Not applicable. TCCSCA List of concerned chemicals Not applicable. OSHA Enforcement Rules : This product contains substances "Specially hazardous to health": xylene, butan-1-c Article 28 Organic solvent poisoning : Type 2 prevention rule Priority management chemicals. Article 2 CMR chemical substances, category 1 (Article 2.2 (I)) : Applicable Chemical substances possessing physical hazards or health hazards (Article 2.2 (II)) Ingredient name Name on list xylene xylenes >10 - ≤25 International regulations Chemical Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed.			
TCCSCA List of concerned chemicals Not applicable. OSHA Enforcement Rules : This product contains substances "Specially hazardous to health": xylene, butan-1-c Article 28 Organic solvent poisoning : Type 2 prevention rule Priority management chemicals, Article 2 CMR chemical substances, category 1 (Article 2.2 (II)) : Applicable Chemical substances possessing physical hazards or health hazards (Article 2.2 (III)) Ingredient name Name on list xylene xylenes >>10 - ≤25 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.	TCCSCA List of toxic chemicals		
Not applicable. OSHA Enforcement Rules : This product contains substances "Specially hazardous to health": xylene, butan-1-c Article 28 Organic solvent poisoning : Type 2 prevention rule Priority management chemicals, Article 2 CMR chemical substances, category 1 (Article 2.2 (I)) : Applicable Chemical substances possessing physical hazards or health hazards (Article 2.2 (II)) Ingredient name Name on list xylene xylenes >10 - ≤25 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.	Not applicable.		
OSHA Enforcement Rules : This product contains substances "Specially hazardous to health": xylene, butan-1-c Article 28 Organic solvent poisoning : Type 2 prevention rule Priority management chemicals. Article 2 CMR chemical substances, category 1 (Article 2.2 (I)) : Applicable Chemical substances possessing physical hazards or health hazards (Article 2.2 (II)) Ingredient name Name on list xylene xylenes ≥10 - ≤25 International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed.	TCCSCA List of concerned chemicals		
Article 28 Organic solvent poisoning : Type 2 prevention rule Priority management chemicals, Article 2 CMR chemical substances, category 1 (Article 2.2 (II)) : Applicable Chemical substances possessing physical hazards or health hazards (Article 2.2 (II)) Ingredient name Name on list xylene xylenes 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.	Not applicable.		
Priority management chemicals, Article 2 CMR chemical substances, category 1 (Article 2.2 (II)) : Applicable Chemical substances possessing physical hazards or health hazards (Article 2.2 (II)) Ingredient name Name on list xylene xylenes total substances ≥10 - ≤25 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. Not listed.	OSHA Enforcement Rules : This product cont Article 28	ains substances "Specially haz	ardous to health": xylene, butan-1-ol
CMR chemical substances, category 1 (Article 2.2 (I)) : Applicable Chemical substances possessing physical hazards or health hazards (Article 2.2 (II)) Ingredient name Name on list Concentration xylene xylenes ≥10 - ≤25 International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals >10 - ≤25 Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed.	Organic solvent poisoning : Type 2 prevention rule		
Chemical substances possessing physical hazards or health hazards (Article 2.2 (II)) Ingredient name Name on list Concentration xylene xylenes ≥10 - ≤25 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. Not listed. Stockholm Convention on Persistent Organic Pollutants	Priority management chemicals, Article 2		
Ingredient name Name on list Concentration xylene xylenes ≥10 - ≤25 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. Not listed.	CMR chemical substances, category 1 (Article 2	.2 (I)) : Applica	ble
xylene xylenes ≥10 - ≤25 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. Not listed.	Chemical substances possessing physical haza	rds or health hazards (Articl	e 2.2 (II))
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.	Ingredient name	Name on list	Concentration
Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed.	xylene	xylenes	≥10 - ≤25
Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed.	International regulations		
Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed.	Chemical Weapon Convention List Schedules I.	II & III Chemicals	
Not listed. <u>Stockholm Convention on Persistent Organic Pollutants</u> Not listed.	Not listed.		
Stockholm Convention on Persistent Organic Pollutants Not listed.	Montreal Protocol		
Not listed.	Not listed.		
	Stockholm Convention on Persistent Organic P	<u>ollutants</u>	
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Date of issue/Date of revision: 14.08.2023Date of previous issue: 18.07.2023Version: 1.0211/2			
	Date of issue/Date of revision : 14.08.2023 Date	of previous issue : 18.07.20	23 Version : 1.02 11/12

Section 15. Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Procedure used to derive the classification

	Classification Justification		
FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 AQUATIC TOXICITY (CHRONIC) - Category 3On basis of test da Calculation metho Calculation metho Calculation metho Calculation metho Calculation metho Calculation metho			
References	: Not available.		
Organisation that prepared the SDS	: Jotun AS, Norway +47 33 45 70 00		
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Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = 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) N/A = Not available SGG = Segregation Group UN = United Nations		

Indicates information that has changed from previously issued version.

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