

Jotacoat Tiecoat Wintergrade Comp B

(In accordance with Article 41, Paragraph 1, of Industrial Safety and Health Act)

Section 1. Chemical product and company identification

Α.	Product name	:	Jotacoat Tiecoat Wintergrade Comp B
	Label No.	:	12380
	Product description	:	Paint.
	Product type	:	Liquid.
В.	Relevant identified uses	of 1	the substance or mixture and uses advised against
	Identified upon		

Identified uses

Use in coatings - Industrial use

C.	Supplier/Manufacturer	:	Chokwang Jotun Ltd. 96, Gwahaksandan 1-ro Gangseo-gu, Busan South Korea Tel: +82 51 797 6000 Fax: +82 51 711 7735 SDSJotun@jotun.com
	Emergency telephone number	:	H.G.LEE Chokwang Jotun Ltd. Tel: +82 51 797 6000

Section 2. Hazards identification

A. Hazard classification	 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (hearing organs) - Category 2
	- Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

B. <u>GHS label elements, including precautionary statements</u> Symbol :

Symbol	
Signal word	Danger.
Hazard statements	 Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. (hearing organs) Toxic to aquatic life with long lasting effects.
Precautionary statements	

Date of issue/Date of revision

Section 2. Hazards identification

	Prevention	:	Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material- handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapour or spray. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
	Response	:	Collect spillage. Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. 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 physician.
	Storage	:	Store locked up. Store in a well-ventilated place. Keep cool.
	Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
C.	Other hazards which do not result in	:	None known.

classification

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

CAS number	: Not applicable.
EC number	: Mixture.
Product code	: 12380

Ingredient name	Synonyms	CAS number	%
xylene	xylene	1330-20-7	30-40
epoxy resin (MW ≤ 700)	epoxy resin (MW ≤ 700)	1675-54-3	20-30
fatty acids, c18-unsatd., dimers, polymers	fatty acids, c18-unsatd.,	68082-29-1	10-20
with tall-oil fatty acids and	dimers, polymers with tall-		
triethylenetetramine	oil fatty acids and		
	triethylenetetramine		
ethylbenzene	ethylbenzene	100-41-4	10-20
benzyl alcohol	benzyl alcohol	100-51-6	2.5-10
formaldehyde, polymer with benzenamine,	formaldehyde, polymer with	135108-88-2	2.5-10
hydrogenated	benzenamine,		
	hydrogenated		
2,4,6-tris(dimethylaminomethyl)phenol	2,4,6-tris	90-72-2	1-2.5
	(dimethylaminomethyl)		
	phenol		
salicylic acid	salicylic acid	69-72-7	0.1-1

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

Α.	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.
В.	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.
C.	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.
D.	Ingestion	:	Get medical attention immediately. Call a poison center or physician. 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. 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.
Е.	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.
	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. Firefighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO_2 , water spray (fog) or foam.
	Unsuitable extinguishing media	1	Do not use water jet.
В.	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 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

Section 5. Firefighting measures

C.	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.
	Special precautions 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.

Section 6. Accidental release measures

Α.	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.
В.	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. Collect spillage.
С.	Methods and material for	co	ntainment 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 spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

A. Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.

Section 7. Handling and storage

В.	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 oxidizing 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.
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Section 8. Exposure controls/personal protection

A. <u>Control parameters</u>

Occupational exposure limits

Ingredient name		Exposure limits	
xylene ethylbenzene		Ministry of Employment and I (Republic of Korea, 7/2018). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. Ministry of Employment and I (Republic of Korea, 7/2018). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.	
Appropriate engineering controls	ventilation or other engineering contaminants below any recomr	on. Use process enclosures, local exha controls to keep worker exposure to airl nended or statutory limits. The enginee r dust concentrations below any lower e ilation equipment.	borne ering controls
Environmental exposure controls	they comply with the requiremer cases, fume scrubbers, filters or	ork process equipment should be check of environmental protection legislation engineering modifications to the proce reduce emissions to acceptable levels.	on. In some
Personal protective equip	oment		
Respiratory protection	respirator according to EN 140. when spraying this product, acc	ntrations above the exposure limit, they Use respiratory mask with charcoal and ording to EN 14387(as filter combination ed-air or fresh-air respiratory equipmen of charcoalfilter.	d dust filter n A2-P2). In
Eye protection	: Use safety eyewear designed to	protect against splash of liquids.	
Hand protection	resistance to any individual or or The breakthrough time must be The instructions and information storage, maintenance and repla Gloves should be replaced regu material. Always ensure that gloves are fr correctly. The performance or effectivenes damage and poor maintenance. Barrier creams may help to prot applied once exposure has occu	greater than the end use time of the pro- provided by the glove manufacturer on cement must be followed. larly and if there is any sign of damage ree from defects and that they are store as of the glove may be reduced by physic ect the exposed areas of the skin but shurred.	oduct. n use, to the glove ed and used sical/chemica
	alcohol (PVA), nitrile rubber May be used, gloves(breakthrou	kthrough time) < 1 hour: PVC rough time) > 8 hours: Teflon, Viton®, 4 Igh time) 4 - 8 hours: neoprene, butyl ru	ubber
		als, with focus on chemical resistance a supplier of chemical resistant gloves.	nu ume of

Section 8. Exposure controls/personal protection

	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.
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.
Skin protection	 Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
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 9. Physical and chemical properties

Α.	Appearance		
	Physical state	:	Liquid.
	Colour	1	Various
В.	Odour	1	Characteristic.
С.	Odour threshold	1	Not available.
D.	рН	1	Not applicable.
Ε.	Melting/freezing point	1	Not applicable.
F.	Boiling point/boiling range	:	Lowest known value: 136.1°C (277°F) (ethylbenzene). Weighted average: 188.23°C (370.8°F)
G.	Flash point	1	Closed cup: 27°C (80.6°F)
	Burning time	1	Not applicable.
	Burning rate	÷	Not applicable.
н.	Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.7compared with butyl acetate
Т.	Flammability (solid, gas)	1	Not available.
J.	Lower and upper explosive (flammable) limits	:	0.8 - 13%
К.	Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.49 kPa (3.68 mm Hg) (at 20°C)
Ε.	Solubility	1	Insoluble in the following materials: cold water and hot water.
	Solubility in water	1	Not available.
Μ.	Vapour density	:	Highest known value: 11.7 (Air = 1) (epoxy resin (MW \leq 700)). Weighted average: 5.98 (Air = 1)
Ν.	Relative density	1	0.96 g/cm ³
O .	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Lowest known value: 382°C (719.6°F) (2,4,6-tris(dimethylaminomethyl)phenol).
Q.	Decomposition temperature	:	Not available.
	SADT	:	Not available.
R.	Viscosity	1	Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 mm²/s)
S.	Molecular weight	;	Not applicable.

Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	1	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	1	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.
С.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Α.	Information on likely routes of exposure	:	Not available.
	Potential acute health effe	ect	<u>s</u>
	Inhalation	:	May cause respiratory irritation.
	Ingestion	:	No known significant effects or critical hazards.
	Skin contact	:	Causes severe burns. May cause an allergic skin reaction.
	Eye contact	:	Causes serious eye damage.
	Over-exposure signs/sym	pt	<u>oms</u>
	Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
	Ingestion	:	Adverse symptoms may include the following: stomach pains
	Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Eye contact	:	Adverse symptoms may include the following: pain watering redness

B. Health hazards

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	-
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	20 g/kg	-
,	LD50 Oral	Mouse	15600 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	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
2,4,6-tris	LD50 Oral	Rat	1673 mg/kg	-
(dimethylaminomethyl)			0.0	
phenol				

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
epoxy resin (MW ≤ 700)	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
fatty acids, c18-unsatd., dimers, polymers with tall- oil fatty acids and triethylenetetramine	Eyes - Irritant	Mammal - species unspecified	-	-	-
,	Skin - Mild irritant	Mammal - species unspecified	-	-	-
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
2,4,6-tris (dimethylaminomethyl) phenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 µg	-
	Skin - Severe irritant	Rat	-	0.25 ml	-
salicylic acid	Skin - Mild irritant	Mammal - species unspecified	-	-	-
	Eyes - Mild irritant	Mammal - species unspecified	-	-	-

Sensitisation

Product/ingredient name	Route of exposure	Species	Result	
epoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising	
fatty acids, c18-unsatd., dimers, polymers with tall- oil fatty acids and triethylenetetramine	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	•••	Route of exposure	Target organs
xylene	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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Section 11. Toxicological information

Name		Route of exposure	Target organs
ethylbenzene formaldehyde, polymer with benzenamine, hydrogenated	Category 2 Category 2		hearing organs kidneys

Aspiration hazard

Name	Result	
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Potential chronic health effects		

Chronic toxicity

Not available.

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	: 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.

ATE value

Route	Result
Oral	3812.9 mg/kg
Dermal	3237.7 mg/kg
Inhalation (vapours)	35.21 mg/l

Section 12. Ecological information

A. Aquatic and terrestrial toxicity

Ecotoxicity

: This material is toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW ≤ 700)	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days
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
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

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
epoxy resin (MW ≤ 700)	-	-	Not readily
ethylbenzene	-	-	Readily
benzyl alcohol	-	-	Readily

C. Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
xylene	3.12	8.1 to 25.9	low	
epoxy resin (MW ≤ 700)	2.64 to 3.78	31	low	
ethylbenzene	3.6	-	low	
benzyl alcohol	0.87	<100	low	
formaldehyde, polymer with benzenamine, hydrogenated		209 to 219	low	
2,4,6-tris (dimethylaminomethyl) phenol	0.219	-	low	
salicylic acid	2.21 to 2.26	-	low	

D. Mobility in soil Soil/water partition : Not available. coefficient (Koc)

E. Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Α.	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.
Β.	Disposal precautions	:	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	
A. UN number	UN3469	UN3469	UN3469	
B. UN proper shipping name	Paint, flammable, corrosive	Paint, flammable, corrosive. Marine pollutant (epoxy resin (MW ≤ 700), fatty acids, c18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine)	Paint, flammable, corrosive	
C. Transport hazard class(es)	3 (8)	3 (8)	3 (8)	
D. Packing group	III	Ш	Ш	
E. Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
		Date of issue/Date	e of revision : 23.03.2020	

user

Section 14. Transport information

F. Additional information	Tunnel restriction code: (D/E) Hazard identification number: 38	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-C	The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special precautions for : Transport within user's premises: always transport in closed containers that are			

tions for : 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 accordance with ADR/RID, IMDG/IMO and ICAO/IATA and national regulation.

Section 15. Regulatory information

Α.	Regulation according to	SI	<u>1A</u>
	ISHA article 37 (Harmful substances prohibited from manufacture)	:	None of the components are listed.
	ISHA article 38 (Harmful substances requiring permission)	:	None of the components are listed.
В.	Regulation according to	AR	EC & CCA
	AREC Toxic chemicals	:	Not applicable
	AREC Article 32 (Banned)	:	None of the components are listed.
	AREC Article 32 (Restricted)	:	None of the components are listed.
	AREC Article 17 (TRI)	:	The following components are listed: Xylene; Ethylbenzene
	Korea inventory	:	Not determined.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to	oth	ner foreign laws
	Europe inventory	:	At least one component is not listed.
	United States inventory (TSCA 8b)	:	Not determined.
	Japan inventory	:	Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

Α.	References	÷ .	Not available.
В.	Date of issue/Date of revision	:	23.03.2020
С.	Version		4
	Date of printing		23.03.2020
D.	Other		

✓ Indicates information that has changed from previously issued version.

Section 16. Other information

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 = Intermediate Bulk Container
	IMDG = 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

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.