

Barrier/Barrier 77 Comp B

Product name	: Barrier/Barrier 77 Comp B	
Product code	: 402	
Other means of identification	: Not available.	
Product description	: Hardener.	
Product type	: Liquid.	
Use in coatings - Industria Use in coatings - Professio		
0		Proline Protective Coatings 176 Ossie James Drive, Hamilton Airport, Hamilton 3282 New Zealand

Emergency telephone number (with hours of operation)	: Medical Emergencies 24 hours: Poisons Information Centre (New Zealand) 0800 764 766
e-mail address of person responsible for this SDS	: sdsjotun@jotun.com

Section 2. Hazards identification

HSNO Classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (oral) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2
	RESPIRATORY SENSITISATION - Category 1
	SKIN SENSITISATION - Category 1
	CARCINOGENICITY - Category 2
	REPRODUCTIVE TOXICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word

: Danger.

Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapour. H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child. H371 - May cause damage to organs. H373 - May cause damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P284 - Wear respiratory protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapour or spray. P270 - Do not eat, drink or smoke when using this product.
Response	 P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P362 + P364 - Take off contaminated clothing and wash it before reuse. 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 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	

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

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

- : Mixture
- : Not available.

Section 3. Composition/information on ingredients

Ingredient name	% (w/w)	CAS number
xylene	≥30 - <55	1330-20-7
Benzene, ethyl-	≥10 - ≤30	100-41-4
1-methoxy-2-propanol	≤10	107-98-2
hydrocarbons, C9, aromatics	≤3	64742-95-6
fatty acids, C18-unsatd., trimers, compds. with oleylamine	≤3	147900-93-4
Fatty acids, tall-oil, compds. with oleylamine	<3	85711-55-3
amines, polyethylenepoly-, triethylenetetramine fraction	<1	90640-67-8
2,2'-iminodiethylamine	<1	111-40-0

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Inhalation	: 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. Get medical attention. If necessary, call a poison center or physician. 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
Ingestion	 for 48 hours. In the event of any complaints or symptoms, avoid further exposure. 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. Get medical attention. If necessary, call a poison center or 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.
Skin contact	: 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. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
Most important symptoms/ef	fects, acute and delayed
Potential acute health effect	

Potential acute health effects	
Inhalation :	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion :	Harmful if swallowed.
Skin contact :	May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye contact :	Causes serious eye irritation.
Over expective signs/sympton	ne

Over-exposure signs/symptoms

Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness
Indication of immediate me	dical attention and special treatment needed, if necessary
Specific treatments	: No specific treatment.
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.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it

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.

Section 5. Firefighting measures

Extinguishing media	
Suitable	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	: 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
Hazchem code	: •3Y
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.
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, protect	:tive	equipment and emergency procedures
For non-emergency personnel	E e N F	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is nadequate. Put on appropriate personal protective equipment.
For emergency responders	ii	f specialised clothing is required to deal with the spillage, take note of any nformation in Section 8 on suitable and unsuitable materials. See also the nformation in "For non-emergency personnel".
Environmental precautions	a p	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 o the environment if released in large quantities.
Methods and material for con	ntain	ment and cleaning up
Small spill	e A a	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	e s c a L n	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 naterial 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). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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

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 lookage. Do not store in uplabelled containers. Loo appropriate containment to

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
₩ylene	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). [xylene (o-, m-, p- isomers)] WES-TWA: 217 mg/m ³ 8 hours. WES-TWA: 50 ppm 8 hours.
Benzene, ethyl-	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). Absorbed through skin. WES-TWA: 20 ppm 8 hours.
1-methoxy-2-propanol	WES-TWA: 88 mg/m ³ 8 hours. WES-STEL: 176 mg/m ³ 15 minutes. WES-STEL: 40 ppm 15 minutes. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022).
2,2'-iminodiethylamine	WES-STEL: 553 mg/m ³ 15 minutes. WES-STEL: 150 ppm 15 minutes. WES-TWA: 369 mg/m ³ 8 hours. WES-TWA: 100 ppm 8 hours. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES)
	(New Zealand, 4/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. WES-TWA: 1 ppm 8 hours. WES-TWA: 4.2 mg/m ³ 8 hours.

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.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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. 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.
Eye/face 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.
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. Not recommended, gloves(breakthrough time) < 1 hour: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), PVC (> 0.5 mm) Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), 4H/Silver Shield® (> 0.07 mm), polyvinyl alcohol (PVA) (> 0.3 mm), nitrile rubber (> 0.75 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	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387(as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance		
Physical state	1	Liquid.
Colour	1	Colourless.
Odour	1	Characteristic.
Odour threshold	:	Not available.
рН	:	Not applicable.
Melting point/freezing point	:	May start to solidify at the following temperature: 223°C (433.4°F) This is based on data for the following ingredient: Poly[imino(1-oxo-1,6-hexanediyl)]. Weighted average: -1.84°C (28.7°F)
Boiling point, initial boiling point, and boiling range	:	Lowest known value: 120.17°C (248.3°F) (1-methoxy-2-propanol). Weighted average: 135.09°C (275.2°F)
Flash point	:	Closed cup: 25°C (77°F)
Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared with butyl acetate
Flammability	1	Not available.
Lower and upper explosion limit/flammability limit	:	0.8 - 13.74%
Vapour pressure	:	Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted average: 0.93 kPa (6.98 mm Hg) (at 20°C)
Relative vapour density	1	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 3.61 (Air = 1)
Relative density	1	Not available.
Density	1	0.92 g/cm ³
Solubility	1	Insoluble in the following materials: cold water and hot water.
Solubility in water	1	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Lowest known value: 270°C (518°F) (1-methoxy-2-propanol).
Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
Flow time (ISO 2431)	1	Not available.
Particle characteristics		
Median particle size	1	Not applicable.

Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on likely	routes of exposure
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion	: Harmful if swallowed.
Skin contact	: May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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

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	-
Benzene, ethyl-	LC50 Inhalation Vapour	Rat - Male	17.8 mg/l	4 hours
•	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
amines, polyethylenepoly-,	LD50 Dermal	Rabbit - Male,	1465.4 mg/kg	-
triethylenetetramine fraction		Female		
-	LD50 Oral	Rat - Male,	1716.2 mg/kg	-
		Female		
2,2'-iminodiethylamine	LC50 Inhalation Vapour	Rat	0.5 mg/l	4 hours
-	LD50 Dermal	Rabbit	1090 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	-

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	-
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Fatty acids, tall-oil, compds. with oleylamine	Eyes - Irritant	Mammal - species unspecified	-	-	-
2,2'-iminodiethylamine	Skin - Moderate irritant	Rabbit	-	500 milligrams	-

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
fatty acids, C18-unsatd., trimers, compds. with oleylamine	skin	Mammal - species unspecified	Sensitising
Fatty acids, tall-oil, compds. with oleylamine	skin	Mammal - species unspecified	Sensitising
amines, polyethylenepoly-, triethylenetetramine fraction	skin	Mammal - species unspecified	Sensitising
2,2'-iminodiethylamine	skin	Mammal - species unspecified	Sensitising

Potential chronic health effects

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.
Inhalation	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Ingestion	: No known significant effects or critical hazards.
Skin contact	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eye contact	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.
Chronic toxicity	
Not available.	

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
xylene hydrocarbons, C9, aromatics	Category 2 Category 3	oral, inhalation -	- Respiratory tract irritation
2,2'-iminodiethylamine	Category 3 Category 2	oral	Narcotic effects -

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 2	oral, inhalation	-
Benzene, ethyl-	Category 2	-	-
fatty acids, C18-unsatd., trimers, compds. with oleylamine	Category 2	-	-
Fatty acids, tall-oil, compds. with oleylamine	Category 2	-	-
2,2'-iminodiethylamine	Category 2	oral	-

Aspiration hazard

Product/ingredient name
hydrocarbons, C9, aromatics

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Barrier/Barrier 77 Comp B	1151.7	2630.8	N/A	127.7	N/A
xylene	500	1100	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	17.8	N/A
1-methoxy-2-propanol	6600	13000	N/A	N/A	N/A
fatty acids, C18-unsatd., trimers, compds. with oleylamine	500	N/A	N/A	N/A	N/A
amines, polyethylenepoly-, triethylenetetramine fraction	1716.2	1465.4	N/A	N/A	N/A
2,2'-iminodiethylamine	1080	50	N/A	0.5	N/A

Section 12. Ecological information

Ecotoxicity

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

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
x ylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes	48 hours
		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Benzene, ethyl-	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
hydrocarbons, C9, aromatics	Acute EC50 <10 mg/l	Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
amines, polyethylenepoly-,	Acute EC50 20 mg/l	Algae	72 hours
triethylenetetramine fraction	_	-	
	Acute EC50 31.1 mg/l	Daphnia	48 hours
	Acute LC50 330 mg/l	Fish	96 hours
2,2'-iminodiethylamine	Acute EC50 345600 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours
-		-	
Version : 1.03		Date of issue/Date of revision :	23.10.2023

Section 12. Ecological information

subcapitata

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene Benzene, ethyl- hydrocarbons, C9, aromatics amines, polyethylenepoly-,	- - -	-	Readily Readily Not readily Not readily
triethylenetetramine fraction			

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
x ylene	3.12	8.1 to 25.9	low
Benzene, ethyl-	3.6	-	low
1-methoxy-2-propanol	<1	-	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
amines, polyethylenepoly-, triethylenetetramine fraction	-2.65	-	low
2,2'-iminodiethylamine	-5.58	2.8 to 6.3	low

Mobility in soil

Soil/water	partition	:	Not available.
coefficient	(Koc)		

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. 2 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.

New Zealand IMDG ΙΑΤΑ **UN number** UN1263 UN1263 UN1263 Paint Paint **UN proper** Paint shipping name **Transport hazard** 3 3 3 class(es)

Section 14. Transport information

Version : 1.03

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Section 14. Transport information

••••						
Packing group						
Environmental hazards	No.			No.		No.
Additional information	ation					
New Zealand		:	Hazchem code •3	(
IMDG		:	Emergency sched	<u>ules</u> F-E, <u>S-E</u>		
ADR/RID		1	Tunnel restriction control Hazard identification			
Special precaution	s for user	:	-	Ensure that pers	•	rt in closed containers that are g the product know what to do
Transport in bulk a		:	Not available.			

to IMO instruments

Section 15. Regulatory information

HSNO Group Standard	: HSR002664 Surface Coatings and Colourants (Flammable, Corrosive, Carcinogenic) Group Standard 2020
HSNO Classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 RESPIRATORY SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

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.

Section 16. Other information

History

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Section 16. Other information

Key to abbreviations	: ADG = Australian Dangerous Goods
	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	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)
	RID = The Regulations concerning the International Carriage of Dangerous Goods
	by Rail
	SGG = Segregation Group
	UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

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