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Muki Z 2001 Comp A

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: Muki Z 2001 Comp A
Product code	: 582
Product description	: Paint.
Product type	: Liquid.
Other means of identification	: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use in coatings - Industrial use

1.3 Details of the supplier of the safety data sheet

Jotun Paints (Europe) Ltd. Stather Road Flixborough, Scunthorpe North Lincolnshire DN15 8RR England

Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00 SDSJotun@jotun.com

1.4 Emergency telephone number

Contact NHS Direct; phone 0845 4647 or 111. Open 24/7.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

2

Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms

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Signal word	: Danger.
Hazard statements	 H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements	

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P210 - sources P271 - P261 - P261 - P261 -Response: P304 + comfort P305 + RemoveStorage: P403 - P235 - DisposalDisposal: P501 - nationaHazardous ingredients: propan- Supplemental label elementsAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous: Not app	 Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapour. P340 + P312 - IF INHALED: Remove person to fresh air and keep able for breathing. Call a POISON CENTER or physician if you feel unwell. P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. e contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with all local, regional,
Storage:P403 -Storage:P403 -Disposal:P501 -Disposal:P501 -Hazardous ingredients:propan-Supplemental label:Not appleelements:Not appleAnnex XVII - Restrictions:Not appleon the manufacture,:Not appleplacing on the market and:Not apple	able for breathing. Call a POISON CENTER or physician if you feel unwell. P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. e contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with all local, regional,
Disposal:P235 -Disposal:P501 - nationaHazardous ingredients:propan- sSupplemental label elements:Not app elementsAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous:	Keep cool. Dispose of contents and container in accordance with all local, regional,
Hazardous ingredients: propan-Supplemental label elements: Not appAnnex XVII - Restrictions on the manufacture, placing on the market and 	
Supplemental label elements: Not app elementsAnnex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous: Not app	and international regulations.
elements Annex XVII - Restrictions : Not app on the manufacture, placing on the market and use of certain dangerous	2-ol
on the manufacture, placing on the market and use of certain dangerous	licable.
substances, mixtures and articles	licable.
Special packaging requirements	
Containers to be fitted : Not app with child-resistant fastenings	licable.
Tactile warning of danger : Not app	licable

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures :	Mixture			
Product/ingredient name	Identifiers	Weight %	Regulation (EC) No. 1272/2008 [CLP]	Туре
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1] [2]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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SECTION 3: Composition/information on ingredients

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit 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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of fi	rst aid measures
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General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

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SECTION 5: Firefighting measures

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5.1 Extinguishing media	
Suitable extinguishing media	Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.
Unsuitable extinguishing media	Do not use water jet.
5.2 Special hazards arising f	the substance or mixture
Hazards from the substance or mixture	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
5.3 Advice for firefighters	
Special protective actions for fire-fighters	Cool closed containers exposed to fire with water. Do not release runoff from fire t drains or watercourses.
Special protective equipment for fire-fighters	Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tive equipment and emergency procedures	
For non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing Refer to protective measures listed in sections 7 and 8.	vapour or mist.
For emergency responders	If specialised clothing is required to deal with the spillage, take not information in Section 8 on suitable and unsuitable materials. See information in "For non-emergency personnel".	•
6.2 Environmental precautions	Do not allow to enter drains or watercourses. If the product contan rivers, or sewers, inform the appropriate authorities in accordance regulations.	
6.3 Methods and material for containment and cleaning up	Contain and collect spillage with non-combustible, absorbent mate earth, vermiculite or diatomaceous earth and place in container for according to local regulations (see Section 13). Preferably clean w Avoid using solvents.	disposal
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective e See Section 13 for additional waste treatment information.	quipment.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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SECTION 7: Handling and storage

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient nar	ne Exposure limit values
propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 8/2018).
	STEL: 1250 mg/m ³ 15 minutes.
	STEL: 500 ppm 15 minutes.
	TWA: 999 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
ethanol	EH40/2005 WELs (United Kingdom (UK), 8/2018).
	TWA: 1920 mg/m³ 8 hours.
	TWA: 1000 ppm 8 hours.
tetraethyl silicate; ethyl silicate	EH40/2005 WELs (United Kingdom (UK), 8/2018).
	TWA: 44 mg/m ³ 8 hours.
	TWA: 5 ppm 8 hours.
procedures at of pr th th lin at of (W fo dc	his product contains ingredients with exposure limits, personal, workplace nosphere or biological monitoring may be required to determine the effectiveness the ventilation or other control measures and/or the necessity to use respiratory otective equipment. Reference should be made to monitoring standards, such as a following: European Standard EN 689 (Workplace atmospheres - Guidance for a assessment of exposure by inhalation to chemical agents for comparison with it values and measurement strategy) European Standard EN 14042 (Workplace nospheres - Guide for the application and use of procedures for the assessment exposure to chemical and biological agents) European Standard EN 482 (orkplace atmospheres - General requirements for the performance of procedures the measurement of chemical agents) Reference to national guidance cuments for methods for the determination of hazardous substances will also be quired.
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SECTION 8: Exposure controls/personal protection

DNELs/DMELs

Product/ingredient name	Exposure	Value	Population	Effects
propan-2-ol	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
	Long term Inhalation	500 mg/m ³	Workers	Systemic
	Long term Dermal	319 mg/kg bw/day	Consumers	Systemic
	Long term Inhalation	89 mg/m ³	Workers	Systemic
	Long term Oral	26 mg/kg bw/day	Consumers	Systemic
tetraethyl silicate; ethyl silicate	Short term Dermal	12.1 mg/ kg bw/day	Workers	Systemic
	Short term Inhalation	85 mg/m ³	Workers	Systemic
	Short term Inhalation	85 mg/m³	Workers	Local
	Long term Dermal	12.1 mg/ kg bw/day	Workers	Systemic
	Long term Inhalation	85 mg/m ³	Workers	Systemic
	Long term Inhalation	85 mg/m³	Workers	Local
	Short term Dermal	8.4 mg/kg bw/day	Consumers	Systemic
	Short term Inhalation	25 mg/m ³	Consumers	Systemic
	Short term Inhalation	25 mg/m³	Consumers	Local
	Long term Dermal	8.4 mg/kg bw/day	Consumers	Systemic
	Long term Inhalation	25 mg/m ³	Consumers	Systemic
	Long term Inhalation	25 mg/m³	Consumers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
propan-2-ol	Fresh water	140.9 mg/l	-
•	Marine	140.9 mg/l	-
	Sewage Treatment Plant	2251 mg/l	-
	Fresh water sediment	552 mg/kg dwt	-
	Marine water sediment	552 mg/kg dwt	-
	Soil	28 mg/kg dwt	-
	Secondary Poisoning	160 mg/kg	-
etraethyl silicate; ethyl silicate	Fresh water	0.19 mg/l	-
	Marine	0.019 mg/l	-
	Sewage Treatment Plant	4000 mg/l	-
	Fresh water sediment	0.83 mg/kg dwt	-
	Marine water sediment	0.083 mg/kg dwt	-
	Soil	0.05 mg/kg dwt	-

8.2 Exposure controls

Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

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SECTION 8: Exposure controls/personal protection

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Individual protection measu	<u>es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Gloves	 There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. Wear suitable gloves tested to EN374. May be used, gloves(breakthrough time) 4 - 8 hours: neoprene, Teflon, PE, PVC Not recommended, gloves(breakthrough time) < 1 hour: polyvinyl alcohol (PVA) Recommended, gloves(breakthrough time) > 8 hours: CPF 3, Responder, 4H, nitrile rubber, butyl rubber, Viton®
	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.
Body protection	: Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
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.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

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Initial boiling point and boiling range	: >36°C (>96.8°F)				
Melting point/freezing point	: Not app					
рН	: Not app					
Odour threshold	: Not app	licable.				
Odour	: Charact	eristic.				
Colour	: Various	colours.				
Physical state	: Liquid.					
<u>Appearance</u>						
9.1 Information on basic physic	cal and chem	ical properties				

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SECTION 9: Physical ar	۱d	chemical properties
Flash point	:	Closed cup: 13°C
Evaporation rate	:	Highest known value: 1.7 (propan-2-ol) Weighted average: 1.58compared with butyl acetate
Flammability (solid, gas)	:	Not applicable.
Upper/lower flammability or explosive limits	1	1.3 - 23%
Vapour pressure	1	Highest known value: 5.7 kPa (43 mm Hg) (at 20°C) (ethanol). Weighted average: 4.3 kPa (32.25 mm Hg) (at 20°C)
Vapour density	1	Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted average: 2.4 (Air = 1)
Density	:	0.9 g/cm ³
Solubility(ies)	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	:	Lowest known value: 222°C (431.6°F) (tetraethyl silicate).
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C): >0.205 cm²/s (>20.5 mm²/s)
Explosive properties	:	Not available.
Oxidising properties	:	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	1	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	1	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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SECTION 11: Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours

Conclusion/Summary

: Not available.

Acute toxicity estimates

Route	ATE value
Inhalation (vapours)	170.8 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Conclusion/Summary	: Not available.
Sensitisation	
Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ toxic	<u>:ity (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
propan-2-ol tetraethyl silicate; ethyl silicate	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

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SECTION 11: Toxicological information

Aspiration hazard

Not available.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment.

Product/ingredient name	Result	Species	Exposure
propan-2-ol	0	Daphnia - Daphnia magna Fish - Rasbora heteromorpha	48 hours 96 hours
Conclusion/Summary	: No known significant effects or critical hazards.		

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
propan-2-ol ethanol tetraethyl silicate; ethyl silicate	0.05 -0.35 3.18		low low low

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

12.5 Results of PBT and vPvB assessment		
PBT	: Not applicable.	
vPvB	: Not applicable.	

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

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

<u>Product</u> Methods of disposal	: 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				
Hazardous waste	all authorities with jurisdiction.				
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SECTION 13: Dis	posal considerations
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Disposal considerations	: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
European waste catalogue (EWC)	: 08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
Type of packaging	European waste catalogue (EWC)
CEPE Paint Guidelines	15 01 10* packaging containing residues of or contaminated by hazardous substances
Special 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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	Paint	Paint	Paint	Paint
14.3 Transport nazard class(es)	3	3	3	3
14.4 Packing group	11	II	II	II
14.5 Environmental nazards	No.	No.	No.	No.
Additional information	tion	-		
ADR/RID		estriction code: (D/E) dentification number: 3	3	
ADN	: <u>Special</u>	provisions 640 (C)		
		<u>ncy schedules</u> F-E, <u>S</u>	E .	

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: No previous validation Version : 1 11/13

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Conforms to Regulation (EC) No. 453/2010 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 *Muki Z 2001 Comp A*

14.7 Transport in bulk: Not applicable.according to Annex II ofMarpol and the IBC Code

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture,	:	Not applicable.
placing on the market and use of certain dangerous substances, mixtures and articles		

Other EU regulations

: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use : Not available.

Mixture Europe inventory : N

: Not determined.

Ozone depleting substances (1005/2009/EU)

Not listed.

VOC

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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.

Date of issue/Date of revision

: 04.06.2019 Date of previous issue

: No previous validation Version : 1

SECTION 15: Regulatory information

15.2 Chemical safety assessment

: Not applicable.

SECTION 16: Other information

Indicates information f	that has changed from previously issued version.
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
	On basis of test data Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Full text of classifications [CLP/GHS]

Date of issue/ Date of revision	: 04.06.2019	
Date of printing	: 04.06.2019	
STOT SE 3, H336		(Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
STOT SE 3, H335		SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
Flam. Liq. 3, H226		FLAMMABLE LIQUIDS - Category 3
Flam. Liq. 2, H225		FLAMMABLE LIQUIDS - Category 2
Eye Irrit. 2, H319		SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Acute Tox. 4, H332		ACUTE TOXICITY (inhalation) - Category 4

Date of previous issue	: No previous validation
Version	: 1

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.

Date of issue/Date of revision

: 04.06.2019 Date of previous issue

: No previous validation