

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

1.1 Product identifier	
Product name	: Muki EPS Comp A
Product code	: 705
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

1.3 Details of the supplier of the safety data sheet

Jotun Boya Sanayi ve Ticaret A.Ş. Balabandere Caddesi, Hilpark Suites Sitesi No: 10, İstinye 34460 Sarıyer, İstanbul

Tel. +90 212 279 7878 SDSJotun@jotun.com

Başvurulacak Kişi: Deren Ercan deren.metiner@jotun.com **Original preparation date** : 29.11.2023

1.4 Emergency telephone number

National Poison Information Center

+90 224 442 82 93 Uludağ Üniversitesi Zehir Danışma Merkezi (www.uludag.edu.tr/uludag/zehir.html) a. ACİL DURUM TELEFONU: Zehirlenme durumlarında gerektiğinde ulusal zehir merkezinin (UZEM) 114 nolu telefonunu arayınız. b. ACIL ILK YARDIM MERKEZI:112 c. İTFAİYE:110

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

: Mixture

Classification according to regulation SEA: RG.-10/12/2020-31330

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373

Product definition

The product is classified as hazardous according to Regulation SEA: RG.-10/12/2020-31330.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Signal word : Danger. Hazard statements : H225 - Highly flammable liquid and vapour. H319 - Causes skin initation. H319 - Causes skin initation. H319 - Causes drowsiness or dizziness. H3161 - Suspected of damaging the unborn child. H373 - May cause drowsiness or dizziness. H361d - Suspected of damaging the unborn child. H373 - May cause drowsiness or dizziness. H361d - Suspected of damaging the unborn child. Precautionary statements : Not applicable. General : Not applicable. Prevention : P201 - Obtain special instructions before use. P200 - Do bar special instructions before use. P200 - Near protective glows, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour or spray. Response : P308 + P313 - IF exposed or concentend: Get medical advice or attention. P302 + P313 - IF Systes of CONCENTER or doctor if you feel unwell. P302 + P32 - IF IN SUN: Wash with plenty of water. P305 + P315 + P339 - IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 + P313 - IF EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Hazard pictograms	
H315 - Causes serinitation. H316 - Causes serinitation. H336 - May cause drowsiness or dizziness. H3610 - Suspected of damage to organs through prolonged or repeated exposure. Precautionary statements General : Not applicable. Prevention : P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour or spray. Response : P304 + P312 - IF Exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P305 + P335 - IF Kopsed or concerned: Get medical advice or attention. P305 + P334 - IF kopsed or concerned: Get medical advice or attention. P305 + P335 - IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P333 - IF eye irritation persists: Get medical advice or attention. P305 + P335 - IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P333 - IF eye irritation persists: Get medical advice or attention. Storage : P403 + P233 - IF IN	Signal word	: Danger.
General : Not applicable. Prevention : P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour or spray. Response : P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P302 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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. Disposal : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : toluene butanone Supplemental label : Not applicable. elements : Not applicable. Annex 17 - Restrictions on substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. <td>Hazard statements</td> <td>H315 - Causes skin irritation. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H361d - Suspected of damaging the unborn child.</td>	Hazard statements	H315 - Causes skin irritation. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H361d - Suspected of damaging the unborn child.
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 P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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 : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Hazardous ingredients : toluene butanone Supplemental label : Not applicable. elements Annex 17 - Restrictions on : Not applicable. the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB Chter hazards which do : None known. 	Prevention	P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: None known.	Tactile warning of danger	: Not applicable.
for PBT or vPvB vPvB. Other hazards which do : None known.	2.3 Other hazards	
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		: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	SEA: RG10/12/2020-31330	Туре
toluene	EC: 203-625-9 CAS: 108-88-3	≥25 - ≤50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
butanone	EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
xylene	EC: 215-535-7 CAS: 1330-20-7	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Ethanol	EC: 200-578-6 CAS: 64-17-5	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319	[1] [2]
amines, n-tallow alkyltrimethylenedi-, oleates	CAS: 1307863-78-0	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	[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, are PBTs or vPvBs 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

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

SECTION 4: First aid measures

4.1 Description of first ai	d measures
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.
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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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SECTION 4: First aid	d measures
Ingestion	: 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.
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 sympton	ns and effects, both acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness 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
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immed	iate 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

SECTION 5: Firefighting measures

-	-
5.2 Special hazards arising fr	rom the substance or mixture
Hazards from the substance or mixture	 Highly 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
OFOTION C. Assidan	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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 inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 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).
6.3 Methods and material for	со	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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

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

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

See Technical Data Sheet / packaging for further information.

Regulation on the prevention of major industrial accidents and reduction of their effects - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
toluene	TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. TWA: 192 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
butanone	TR ISGGM OEL (Turkey, 12/2013). TWA: 600 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. STEL: 900 mg/m ³ 15 minutes. STEL: 300 ppm 15 minutes.
ate of revision : 29	11.2023 Original preparation date : 29.11.2023 Version : 1 6/18

SECTION 8: Exposure controls/personal protection

xylene	TR ISGGM OEL (Turkey, 12/2013). [Xylene (pure and mixed
-	isomers)] Absorbed through skin.
	TWA: 221 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 442 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Ethanol	ACGIH TLV (United States, 1/2023).
	STEL: 1000 ppm 15 minutes.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
toluene	DNEL	Long term	384 mg/m ³	Workers	Systemic
		Inhalation	-		
	DNEL	Long term Oral	8.13 mg/	General	Systemic
		Ū	kg bw/day	population	,
	DNEL	Long term	56.5 mg/m ³	General	Local
		Inhalation	5	population	
	DNEL	Long term	56.5 mg/m ³	General	Systemic
		Inhalation	<u>-</u> ,	population	-,
	DNEL	Long term	192 mg/m³	Workers	Local
		Inhalation	···		
	DNEL	Long term	192 mg/m ³	Workers	Systemic
		Inhalation	··•= …g,…		-)
	DNEL	Long term Dermal	226 mg/kg	General	Systemic
			bw/day	population	-,
	DNEL	Short term	226 mg/m ³	General	Local
	0.122	Inhalation	220 mg/m	population	Loodi
	DNEL	Short term	226 mg/m ³	General	Systemic
		Inhalation		population	-)
	DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
	0.122	Long toni Donna	bw/day	Tronkero	eyetenne
	DNEL	Short term	384 mg/m ³	Workers	Local
	0.122	Inhalation	00 i ilig,ili	Tronkero	Loodi
	DNEL	Short term	384 mg/m³	Workers	Systemic
	0.122	Inhalation	00 i ilig,ili	Tronkero	eyetenne
butanone	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
Satahone	DIVLL	Long tonn Donna	kg bw/day	Wonters	Cystoniio
	DNEL	Long term	600 mg/m ³	Workers	Systemic
	DIVLL	Inhalation	ooo mg/m	WORKERS	Oysternie
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
		Long torm Derma	bw/day	population	
			DW/day	[Consumers]	
	DNEL	Long term	106 mg/m ³	General	Systemic
		Inhalation	100 mg/m	population	Oysternic
		Innalation		[Consumers]	
	DNEL	Long term Oral	31 mg/kg	General	Systemic
			bw/day	population	
			Swiddy	[Consumers]	
	DNEL	Long term Oral	31 mg/kg	General	Systemic
		Long term Ora	bw/day	population	Gysternic
	I		Dwiday	population	<u> </u>

	DNEL	Long term	106 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	412 mg/kg	General	Systemic
			bw/day	population	-
	DNEL	Short term	450 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	600 mg/m ³	Workers	Systemic
		Inhalation	Ŭ		-
	DNEL	Short term	900 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	1161 mg/	Workers	Systemic
		-	kg bw/day		
xylene	DNEL	Long term Oral	12.5 mg/	General	Systemic
-			kg bw/day	population	
	DNEL	Long term	65.3 mg/m ³	General	Local
		Inhalation	Ŭ	population	
	DNEL	Long term	65.3 mg/m ³	General	Systemic
		Inhalation	5	population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
		Ĭ	bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	221 mg/m ³	Workers	Local
		Inhalation	0		
	DNEL	Long term	221 mg/m ³	Workers	Systemic
		Inhalation	J.		
	DNEL	Short term	260 mg/m ³	General	Local
		Inhalation	J.	population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	442 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	442 mg/m ³	Workers	Systemic
		Inhalation			
Ethanol	DNEL	Long term	380 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	87 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	114 mg/m ³	General	Systemic
		Inhalation	_	population	
	DNEL	Long term Dermal	206 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	343 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	950 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	1900 mg/	Workers	Local
		Inhalation	m³		
amines, n-tallow alkyltrimethylenedi-,	DNEL	Long term Oral	0.018 mg/	General	Systemic
oleates			kg bw/day	population	
	DNEL	Long term Dermal	0.018 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.04 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	0.07 mg/m ³	General	Systemic
		Inhalation	_	population	
	DNEL	Long term	0.29 mg/m ³	Workers	Systemic
	1	Inhalation	-		-

PNECs

Product/ingredie	ent name	Compartment Detail	Value	Method Detail
toluene		Fresh water	0.68 mg/l	-
		Marine	0.68 mg/l	-
		Sewage Treatment	13.61 mg/l	-
		Plant	Ũ	
		Fresh water sediment	16.39 mg/kg dwt	-
		Marine water sediment	16.39 mg/kg dwt	-
		Soil	2.89 mg/kg dwt	-
butanone		Fresh water	55.8 mg/l	-
		Marine	55.8 mg/l	-
		Sewage Treatment	709 mg/l	-
		Plant		
		Fresh water sediment	284.74 mg/kg dwt	-
		Marine water sediment	284.7 mg/kg dwt	-
		Soil	22.5 mg/kg dwt	-
		Secondary Poisoning	1000 mg/kg	-
xylene		Fresh water	0.327 mg/l	-
		Marine	0.327 mg/l	-
		Sewage Treatment	6.58 mg/l	-
		Plant		
		Fresh water sediment	12.46 mg/kg dwt	-
		Marine water sediment	12.46 mg/kg dwt	-
		Soil	2.31 mg/kg dwt	-
opropriate engineering ontrols	ventilation contamina controls a	with adequate ventilation. Us or other engineering control ants below any recommender lso need to keep gas, vapour limits. Use explosion-proof v	s to keep worker ex d or statutory limits. r or dust concentrati	posure to airborne The engineering ons below any lower
ndividual protection meas	-		ventilation equipment	it.
Hygiene measures	: Wash han	ids, forearms and face thoro	ughly after handling	chemical products.
	before eat Appropria Wash con safety sho	ting, smoking and using the l te techniques should be used taminated clothing before re owers are close to the workst	avatory and at the e d to remove potentia using. Ensure that e ation location.	nd of the working period Illy contaminated clothin eyewash stations and
Eye/face protection	assessme gases or c	ewear complying to ISO 1632 ent indicates this is necessary dusts. If contact is possible, assessment indicates a hig	y to avoid exposure the following protect	to liquid splashes, mists ion should be worn,
Skin protection				
Hand protection	resistance The break The instru storage, n	o one glove material or coml to any individual or combina through time must be greate ctions and information provio naintenance and replacemen ould be replaced regularly ar	ation of chemicals. If than the end use t ded by the glove ma It must be followed.	ime of the product. nufacturer on use,
	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.

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SECTION 8: Exposure controls/personal protection

	Wear suitable gloves tested to ISO 374-1:2016. Recommended, gloves(breakthrough time) > 8 hours: Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), nitrile rubber (> 0.75 mm) May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber (> 0.4 mm), neoprene (> 0.35 mm), PVC (> 0.5 mm), polyvinyl alcohol (PVA) (> 0.3 mm)
	For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.
	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Grey, Red
Odour	: Characteristic.
Odour threshold	: Not applicable.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	: >36°C (>96.8°F)
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: 0.8 - 19%
Flash point	: Closed cup: -5°C (23°F)
Auto-ignition temperature	: Lowest known value: 404°C (759.2°F) (butanone).
Decomposition temperature	: Not available.
рН	: Not applicable.
Viscosity	: Kinematic (40°C): >20.5 mm²/s
Solubility(ies)	1 · · · · · · · · · · · · · · · · · · ·
Media	Result
cold water hot water	Not soluble Not soluble

SECTION 9: Physical and chemical properties					
Partition coefficient: n-octanol/ water	:	Not available.			
Vapour pressure	:	Highest known value: 10.5 kPa (78.8 mm Hg) (at 20°C) (butanone). Weighted average: 6.21 kPa (46.58 mm Hg) (at 20°C)			
		Highest known value: 7.12 (butanone) Weighted average: 4.11compared with butyl acetate			
Density	1	1.146 to 1.16 g/cm ³			
Vapour density	1	Highest known value: 3.7 (Air = 1) (xylene). Weighted average: 2.8 (Air = 1)			
Explosive properties	1	Not available.			
Oxidising properties	:	Not available.			
Particle characteristics					
Median particle size	÷	Not applicable.			

9.2 Other information

No additional information.

SECTION 10: Stabilit	y	and reactivity
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 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.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Shelf life at 23 °C	:	24 month(s)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	20 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours

Conclusion/Summary : Not available.

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)
Muki EPS Comp A	N/A	38596.5	N/A	701.8	N/A
Toluene	N/A	N/A	N/A	49	N/A
butanone	2737	6480	N/A	N/A	N/A
xylene	4300	1100	N/A	20	N/A
ethanol	7000	N/A	N/A	124.7	N/A

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
toluene	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
butanone	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Rabbit	-	24 hours 14 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
Ethanol	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
amines, n-tallow alkyltrimethylenedi-, oleates	Eyes - Mild irritant Skin - Mild irritant	Mammal - species unspecified Mammal - species unspecified	-	-	-
Conclusion/Summary	: Not available.		+		
<u>Sensitisation</u>					
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary <u>Reproductive toxicity</u>	: Not available.				
Conclusion/Summary Teratogenicity	: Not available.				
Conclusion/Summary	: Not available.				

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
toluene	Category 3	-	Narcotic effects
butanone	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
toluene amines, n-tallow alkyltrimethylenedi-, oleates	Category 2 Category 2	-	-

Aspiration hazard

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

Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	No known significant effects or critical hazards.
ingestion	
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue
	dizziness/vertigo unconsciousness
	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
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	skeletal manormations
	ts as well as chronic effects from short and long-term exposure
Short term exposure Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging the unborn child.
Other information	: Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
butanone	Acute EC50 500000 µg/l Marine water Acute LC50 530 mg/l Fresh water	Algae - Skeletonema costatum Fish - Lepomis macrochirus	96 hours 96 hours
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Conclusion/Summary

: No known significant effects or critical hazards.

12.2 Persistence and degradability

Conclusion/Summary	: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	90	low
butanone	0.3	-	low
xylene	3.12	8.1 to 25.9	low
Ethanol	-0.35	-	low

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

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

Product	
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 all authorities with jurisdiction.
Hazardous waste	: Yes.
Waste list	

Waste code	Waste code definition
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances
De else else e	

Packaging

SECTION 13: Disposal considerations

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.
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.

	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	3	3	3	3
hazard class(es)				
14.4 Packing group	11	II	II	Ш
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional informa	ation			<u>+</u>
ADR/RID	Speci	d identification number al provisions 640 (C) al code (D/E)	<u>er</u> 33	

SECTION 14. Transport information

ADN		 The product is only regulated as an environmentally hazardous substance when transported in tank vessels. <u>Special provisions</u> 640 (C)
IMDG		: Emergency schedules F-E, S-E
14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	:	Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Turkey Regulation No. 30105, KKDIK

Annex 14 - List of substances subject to authorization

Annex 14

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex 17 - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Ozone depleting substances

Not listed.

Regulation on the prevention of major industrial accidents and reduction of their effects

This product is controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

Danger criteria

Category

P5c

EU regulations

EU Regulation (EC) No. 1907/2006 (REACH) 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 : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

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

Not listed.

Persistent Organic Pollutants Not listed.

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.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	 ATE = Acute Toxicity Estimate EUH statement = SEA-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative
	The very construction and very broadcamanative

Procedure used to derive the classification according to regulation SEA: RG.-10/12/2020-31330

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [SEA/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Repr. 2	REPRODUCTIVE TOXICITY - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
Date of printing	: 29.11.2023	

Date of printing	. 29.11.2023			
Date of issue/ Date of revision	: 29.11.2023			
Date of previous issue	: No previous validation			
Version	: 1			
Contact information of certified author				

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Notice to reader

SECTION 16: Other information

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.