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Jotamastic 87 Standard Comp B

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

1.1 Product identifier	
Product name	: Jotamastic 87 Standard Comp I
Product code	: 527
Product description	: Hardener.
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 - Professional use

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

National Poison Information Center

+90 224 442 82 93 Uludağ Üniversitesi Zehir Danısma Merkezi (www.uludag.edu.tr/uludag/zehir.html) a. ACIL 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

Product definition : Mixture

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

Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317

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

Hazard pictograms



SECTION 2: Hazards identification

	-	
Signal word	1	Danger.
Hazard statements	:	H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction.
Precautionary statements		
General	:	Not applicable.
Prevention	:	P280 - Wear protective gloves, protective clothing and eye or face protection. P261 - Avoid breathing vapour.
Response	:	 P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P363 - Wash contaminated clothing 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, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	1	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	3-aminomethyl-3,5,5-trimethylcyclohexylamine 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
Supplemental label elements	:	Not applicable.
Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
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.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			
Product/ingredient name	Identifiers	%	SEA: RG10/12/2020-31330	Туре
benzyl alcohol	EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≤14	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	[1]
Date of revision	:29.11.2023	riginal preparation	on date : 29.11.2023 Version	n :1 2/1

SECTION 3: Composition/information on ingredients

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2,2,4(or 2,4,4)-	CAS: 25513-64-8	≤7.3	Acute Tox. 4, H302	[1]
trimethylhexane-1,6-diamine			Skin Corr. 1A, H314	
-			Eye Dam. 1, H318	
			Skin Sens. 1A, H317	
			See Section 16 for the full text of the H	
			statements declared above.	

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

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

SECTION 4: First aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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.

Date of revision		: 29.11.2023	Original preparation date	: 29.11.2023	Ve
Ingestion	:	No known si	gnificant effects or critica	l hazards.	
Skin contact	:	Causes seve	ere burns. May cause an	allergic skin reactior	n.
Inhalation	:	No known si	gnificant effects or critica	l hazards.	
Eye contact	:	Causes serio	ous eye damage.		

SECTION 4: First aid measures

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing		Use an extinguishing agent suitable for the surrounding fire.
media		Use an extinguishing agent suitable for the surrounding life.
Unsuitable extinguishing media	- 1	None known.
5.2 Special hazards arising	fron	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides carbonyl halides
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.
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.

SECTION 6: Accidental release measures

6.1 Personal precautions, prot	ective 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. Do not breathe 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".

SECTION 6: Accidental release measures

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 materia	al for containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. 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. 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 bygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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. 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.

7.3 Specific end use(s) **Recommendations** Industrial sector specific solutions

- : Not available.
- : Not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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
penzyl alcohol	DNEL	Long term Oral	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	5.4 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Oral	20 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	20 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	22 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	27 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	110 mg/m ³	Workers	Systemic
		Inhalation			
3-aminomethyl-	DNEL	Long term Oral	0.526 mg/	General	Systemic
3,5,5-trimethylcyclohexylamine			kg bw/day	population	
				[Consumers]	
	DNEL	Short term	0.073 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term	0.073 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term Oral	0.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	0.3 mg/kg	General	Systemic
			bw/day	population	
2,2,4(or 2,4,4)-trimethylhexane-	DNEL	Long term Oral	0.05 mg/	General	Systemic
1,6-diamine			kg bw/day	population	
	D		0.05	[Consumers]	
	DNEL	Long term Oral	0.05 mg/	General	Systemic
			kg bw/day	population	

PNECs

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Product/ingredient name	Compartment Detail	Value	Method Detai
benzyl alcohol	Fresh water	1 mg/l	-
-	Marine	0.1 mg/l	-
	Sewage Treatment Plant	39 mg/l	-
	Fresh water sediment	5.27 mg/kg dwt	-
	Marine water sediment	0.527 mg/kg dwt	-
	Soil	0.456 mg/kg dwt	-
3-aminomethyl-	Fresh water	0.06 mg/l	-
3,5,5-trimethylcyclohexylamine		-	
	Marine	0.006 mg/l	-
	Sewage Treatment Plant	3.18 mg/l	-
	Fresh water sediment	5.784 mg/kg dwt	-
	Marine water sediment	0.578 mg/kg dwt	-
	Soil	1.121 mg/kg dwt	-
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	Fresh water	0.0295 mg/l	-
	Marine	0.00295 mg/l	-
	Sewage Treatment	72 mg/l	-
	Plant	0.40	
	Fresh water sediment	0.18 mg/kg dwt	-
	Marine water sediment	0.018 mg/kg dwt	-
	Soil	0.019 mg/kg dwt	-

8.2 Exposure controls	
Appropriate engineering controls	 If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	<u>ures</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. 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	 There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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SECTION 8: Exposure controls/personal protection

	ear suitable gloves tested to ISO 374-1:2016. ecommended, gloves(breakthrough time) > 8 hours: 4H/Silv m), butyl rubber (> 0.4 mm), fluor rubber (> 0.35 mm), Viton ay be used, gloves(breakthrough time) 4 - 8 hours: nitrile rul /C (> 0.5 mm)	® (> 0.7 mm)
	or right choice of glove materials, with focus on chemical res enetration, seek advice by the supplier of chemical resistant	
	ne user must check that the final choice of type of glove sele oduct is the most appropriate and takes into account the pa se, as included in the user's risk assessment.	
Body protection	ersonal protective equipment for the body should be selected ing performed and the risks involved and should be approve fore handling this product.	
Other skin protection	opropriate footwear and any additional skin protection measulected based on the task being performed and the risks involution proved by a specialist before handling this product.	
Respiratory protection	ased on the hazard and potential for exposure, select a responsive standard or certification. Respirators must be use spiratory protection program to ensure proper fitting, training spects of use.	ed according to a
Environmental exposure controls	nissions from ventilation or work process equipment should sure they comply with the requirements of environmental pr some cases, fume scrubbers, filters or engineering modific guipment will be necessary to reduce emissions to acceptab	otection legislation. ations to the process

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

Appearance			
Physical state	: Liquid.		
Colour	: Colourless.		
Odour	: Characteristic.		
Odour threshold	Not applicable.		
Melting point/freezing point	: Not applicable.		
Initial boiling point and boiling range	: Lowest known value: 205.3°C (401.5°F) (benzyl alcohol). Weighted average: 224.77°C (436.6°F)		
Flammability (solid, gas)	: Not applicable.		
Upper/lower flammability or explosive limits	: 1.2 - 13%		
Flash point	: Not available.		
Auto-ignition temperature	: Not applicable.		
Decomposition temperature	: Not available.		
рН	: Not applicable.		
Viscosity	: Kinematic (40°C): >20.5 mm²/s		
Solubility(ies)	:		
Media	Result		
cold water hot water	Not soluble Not soluble		
Partition coefficient: n-octanol/ water	: Not available.		
Vapour pressure	: Highest known value: 0.007 kPa (0.05 mm Hg) (at 20°C) (benzyl alcohol). Weighted average: 0.005 kPa (0.04 mm Hg) (at 20°C)		

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SECTION 9: Physical and chemical properties

Density	: 1.02 g/cm ³
Vapour density	: Highest known value: 3.7 (Air = 1) (benzyl alcohol).
Explosive properties	: Not available.
Oxidising properties	: Not available.
Particle characteristics	
Median particle size	: Not applicable.

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	:	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	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products		Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
5	LD50 Oral LD50 Oral	Rat Rat	1230 mg/kg 1030 mg/kg	-

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)
Jotamastic 87 Standard Comp B	2112.0	N/A	N/A	N/A	6.2
benzyl alcohol	1230	N/A	N/A	N/A	1.5
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030	N/A	N/A	N/A	N/A
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-

Conclusion/Summary

: Not available.

Sensitisation

SECTION 11: Toxicological information

Product/ingredient name	Route of	Species	Result		
J. J. J. J. J. J. J. J. J. J. J. J. J. J	exposure				
3-aminomethyl-	skin	Mammal - species	Sensitising		
3,5,5-trimethylcyclohexylamine		unspecified	Sensitieing		
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine	skin	Mammal - species unspecified	Sensitising		
Conclusion/Summary	: Not available.		•		
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxici	<u>ty (single exposu</u>	<u>re)</u>			
Not available.					
Specific target organ toxici	t <u>y (repeated expo</u>	<u>sure)</u>			
Not available.					
Aspiration hazard					
Not available.					
Information on likely routes of exposure	: Not available.				
Potential acute health effects	2				
Eye contact	: Causes seriou	s eye damage.			
Inhalation	: No known sigr	No known significant effects or critical hazards.			
Skin contact	: Causes severe	Causes severe burns. May cause an allergic skin reaction.			
Ingestion	: No known sigr	No known significant effects or critical hazards.			
Sumptome related to the phy	voicel chemical a	nd toxicological observatorist	100		
Symptoms related to the phy Eye contact		toms may include the following			
Lye contact	pain	torns may include the following			
	watering				
	redness				
Inhalation	: No specific da				
Skin contact	: Adverse symp pain or irritatio	toms may include the following	j:		
	redness	11			
	blistering may	occur			
Ingestion		toms may include the following):		
	stomach pains				
Delayed and immediate effect	ts as well as chro	onic effects from short and lo	ona-term exposure		
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Long term exposure					
Potential immediate effects	: Not available.				
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SECTION 11: Toxicological information

Potential delayed effects	: Not available.	
Potential chronic health e	<u>cts</u>	
Not available.		
Conclusion/Summary	: Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently expos to very low levels.	ed
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: No known significant effects or critical hazards.	
Other information	: Not available.	

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	Acute EC50 17.4 to 21.5 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 37 mg/l	Algae	72 hours
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine	Acute EC50 29.5 mg/l	Algae - Scenedesmus subspicatus	72 hours
•	Acute EC50 31.5 mg/l	Daphnia - Daphnia magna	24 hours
	Acute LC50 150 mg/l		48 hours
Conclusion/Summary	: No known significant effects or critic	al hazards.	•

12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl alcohol	-	-	Readily
3-aminomethyl-	-	-	Not readily
3,5,5-trimethylcyclohexylamine			
2,2,4(or 2,4,4)-	-	-	Not readily
trimethylhexane-1,6-diamine			

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
benzyl alcohol	0.87	<100	low
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	0.99	-	low
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine	-0.3	-	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.

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Dale	U	revi	SI	on

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 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
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.
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. Avoid dispersal of

spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN2735	UN2735	UN2735	UN2735
14.2 UN proper shipping name	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl- 3,5,5-trimethylcyclohexylamine, 2,2,4(or 2,4,4)- trimethylhexane- 1,6-diamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl- 3,5,5-trimethylcyclohexylamine, 2,2,4(or 2,4,4)- trimethylhexane- 1,6-diamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl- 3,5,5-trimethylcyclohexylamine, 2,2,4(or 2,4,4)- trimethylhexane- 1,6-diamine)	Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl- 3,5,5-trimethylcyclohexylamine, 2,2,4(or 2,4,4)- trimethylhexane- 1,6-diamine)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group		111	111	111
14.5 Environmental hazards	No.	No.	No.	No.

Additional information

ADR/RID

: <u>Hazard identification number</u> 80 <u>Tunnel code</u> (E)

IMDG

: <u>Emergency schedules</u> F-A, S-B Segregation Group: 18 - Alkalis

SECTION 14: Transport information

14.6 Special precautions for :	Transport within user's premises: always transport in closed containers that are
user	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	: Not available.
according to IMO	
instruments	

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

<u>Annex 14</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

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 not controlled under the Regulation on the prevention of major industrial accidents and reduction of their effects.

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 <u>Prior Informed Consent (PIC) (649/2012/EU)</u>

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

SECTION 15: Regulatory information

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

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

Classification	Justification
Eye Dam. 1, H318	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Full text of classifications [SEA/GHS]

Acute Tox. 4 Eye Dam. 1 Eye Irrit. 2 Skin Corr. 1A Skin Corr. 1B Skin Sens. 1 Skin Sens. 1A	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1A
Date of printing	: 29.11.2023
Date of issue/ Date of revision	: 29.11.2023
Date of previous issue	e : No previous validation
Version	: 1

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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.