SAFETY DATA SHEET



Jotamastic Smart Pack Alu Comp A

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

1.1 Product identifier

Product name : Jotamastic Smart Pack Alu Comp A

Product code : 23680
Product description : Paint.
Product type : Liquid.
Other means of : Not ava

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 : 24.07.2023

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. ACİL İLK YARDIM MERKEZİ: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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 1/19

SECTION 2: Hazards identification

Hazard pictograms







Signal word : Warning.

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

Prevention: P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response : P391 - Collect spillage.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients : epoxy resin (MW ≤ 700)

Phenol, methylstyrenated epoxy resin (MW 700-1200)

butan-1-ol

Supplemental label

elements

: Contains epoxy constituents. May produce an allergic reaction.

Annex 17 - Restrictions on the manufacture, placing

on the market and use of

certain dangerous

substances, mixtures and

articles

: Not applicable.

Special packaging requirements

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 contains substances that are assessed to be a PBT or a vPvB, refer to

Section 3.2.

Other hazards which do not result in classification

: None known.

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 2/19

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	SEA: RG10/12/2020-31330	Type
epoxy resin (MW ≤ 700)	EC: 216-823-5 CAS: 1675-54-3	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
Phenol, methylstyrenated	EC: 270-966-8 CAS: 68512-30-1	≤10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1] [3]
xylene	EC: 215-535-7 CAS: 1330-20-7	≤9.7	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]
hydrocarbons, C9, aromatics	EC: 918-668-5 CAS: 128601-23-0	≤5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
epoxy resin (MW 700-1200)	CAS: 25036-25-3	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
ethylbenzene	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
benzyl alcohol	EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≤3	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
butan-1-ol	EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤2.7	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 See Section 16 for the full text of the H statements declared above.	[1] [2]

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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for vPvB

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

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 3/19

SECTION 4: First aid measures

4.1 Description of first aid 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 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 adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

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 adverse health effects persist or are severe. 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. 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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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.

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 4/19

5.2 Special hazards arising from the substance or mixture

Jotamastic Smart Pack Alu Comp A

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide 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.

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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment 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.

Date of revision : 29.05.2024 : 24.07.2023 Version : 1.03 5/19 Original preparation date

SECTION 6: Accidental release measures

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). 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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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. 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
E2	200 tonne	500 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 6/19

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
xylene	TR ISGGM OEL (Turkey, 12/2013). [Ksilen] Absorbed through skin. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours. STEL: 442 mg/m³ 15 minutes.
ethylbenzene	STEL: 100 ppm 15 minutes. TR ISGGM OEL (Turkey, 12/2013). Absorbed through skin. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours. STEL: 884 mg/m³ 15 minutes.
butan-1-ol	STEL: 200 ppm 15 minutes. ACGIH TLV (United States, 7/2023). TWA: 20 ppm 8 hours.

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	Type	Exposure	Value	Population	Effects
2,2-bis[4(2,3-epoksipropoksi)fenil]- propan	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
•	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic
Phenol, methylstyrenated	DNEL	Long term Dermal	16.4 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	57 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	8 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	28 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	0.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.348 mg/ m³	General population	Systemic

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 7/19

SECTION 8: Exposure controls/personal protection

<u> </u>	•	<u> </u>			
	DNEL	Long term	1.41 mg/m ³	Workers	Systemic
	DNEL	Inhalation Long term Dermal	1.67 mg/	General	Systemic
	DIVLL	Long torm Dormai	kg bw/day	population	Cystonio
	DNEI	Long torm Dormal		Workers	Systemic
	DNEL	Long term Dermal	3.5 mg/kg	VVOIKEIS	Systernic
vodene	DNE	l amar tarma Oral	bw/day	Camanal	Cuatamaia
xylene	DNEL	Long term Oral	5 mg/kg	General	Systemic
	5. IEI		bw/day	population	
	DNEL	Long term	65.3 mg/m ³	General	Local
	5. IEI	Inhalation	0.50 / 3	population	
	DNEL	Long term	65.3 mg/m ³	General	Systemic
	DAIEI	Inhalation	405	population	0
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
	DNEL		bw/day	population	0
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
	DAIEI	1 4	bw/day	VA / I	1 1
	DNEL	Long term	221 mg/m ³	Workers	Local
	5.151	Inhalation	004 / 0		
	DNEL	Long term	221 mg/m ³	Workers	Systemic
	5.151	Inhalation			
	DNEL	Short term	260 mg/m ³	General	Local
	ראבי	Inhalation	000 / 3	population	O. m.t.a.m.i.i.
	DNEL	Short term	260 mg/m ³	General	Systemic
	DAIEI	Inhalation	440 / 3	population	
	DNEL	Short term	442 mg/m ³	Workers	Local
	5. IEI	Inhalation	440 / 2		
	DNEL	Short term	442 mg/m ³	Workers	Systemic
1	DAIEI	Inhalation	40.5	VA / I	0
hydrocarbons, C9, aromatics	DNEL	Long term Dermal	12.5 mg/	Workers	Systemic
	DAIEI	1	kg bw/day	VA / I	0
	DNEL	Long term	151 mg/m ³	Workers	Systemic
	DAIEI	Inhalation	7.5	0	0
	DNEL	Long term Dermal	7.5 mg/kg	General	Systemic
	DNEL		7.5 mg/kg bw/day	population	Systemic
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Date of revision: 29.05.2024Original preparation date: 24.07.2023Version: 1.038/19

SECTION 8: Exposure controls/personal protection

T		1			•
		Inhalation		population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
	5.151		bw/day		
	DNEL	Short term	293 mg/m ³	Workers	Local
l	DATE	Inhalation	4 (1		
benzyl alcohol	DNEL	Long term Oral	4 mg/kg	General	Systemic
	DAIEI		bw/day	population	0
	DNEL	Long term Dermal	4 mg/kg	General	Systemic
	DNE	Long torm	bw/day	population General	Cuatamia
	DNEL	Long term Inhalation	5.4 mg/m³		Systemic
	DNEL	Long term Dermal	8 mg/kg	population Workers	Systemic
	DIVEL	Long term Dermal	bw/day	AAOIVEIS	Systerric
	DNEL	Short term Oral	20 mg/kg	General	Systemic
	DIVLL	Official Chair	bw/day	population	Oysternic
	DNEL	Short term Dermal	20 mg/kg	General	Systemic
	5.422	Silon tomi Bomia	bw/day	population	2,01011110
	DNEL	Long term	22 mg/m ³	Workers	Systemic
		Inhalation	J.		
	DNEL	Short term	27 mg/m³	General	Systemic
		Inhalation	-	population	
	DNEL	Short term Dermal	40 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	110 mg/m ³	Workers	Systemic
		Inhalation			
butan-1-ol	DNEL	Long term Oral	1.5625 mg/		Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
	D	1	kg bw/day	population	0
	DNEL	Long term	55.357 mg/		Systemic
	DNIEL	Inhalation	m³	population	1 1
	DNEL	Long term	155 mg/m ³	General	Local
	DNE	Inhalation	210 mg/rs3	population	l acal
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local
		II II Iaiauui			

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
,2-bis[4(2,3-epoksipropoksi)fenil]-propan	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-
henol, methylstyrenated	Fresh water	14 μg/l	_
	Marine	1.4 µg/l	_
	Sewage Treatment Plant	2.4 mg/l	-
	Fresh water sediment	52.9 mg/kg dwt	_
	Marine water sediment	5.3 mg/kg dwt	_
	Soil	10.5 mg/kg dwt	_
ylene	Fresh water	0.327 mg/l	_
,	Marine	0.327 mg/l	_
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	_
	Marine water sediment	12.46 mg/kg dwt	_
	Soil	2.31 mg/kg dwt	_
thylbenzene	Fresh water	0.1 mg/l	_
y	Marine	0.01 mg/l	-

Date of revision: 29.05.2024Original preparation date: 24.07.2023Version: 1.039/19

SECTION 8: Exposure controls/personal protection

	<u>-</u>		
	Sewage Treatment	9.6 mg/l	-
	Plant		
	Fresh water sediment	13.7 mg/kg dwt	-
	Soil	2.68 mg/kg dwt	-
	Secondary Poisoning	20 mg/kg	-
benzyl alcohol	Fresh water	1 mg/l	-
	Marine	0.1 mg/l	-
	Sewage Treatment	39 mg/l	-
	Plant		
	Fresh water sediment	5.27 mg/kg dwt	-
	Marine water sediment	0.527 mg/kg dwt	-
	Soil	0.456 mg/kg dwt	-
butan-1-ol		0.082 mg/l	-
	Marine	0.0082 mg/l	-
	Sewage Treatment	2476 mg/l	-
	Plant		
		0.178 mg/kg dwt	-
		0.0178 mg/kg dwt	-
	Soil	0.015 mg/kg dwt	-

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection Hand protection

: There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Wear suitable gloves tested to ISO 374-1:2016.

May be used, gloves(breakthrough time) 4 - 8 hours: neoprene (> 0.35 mm), butyl rubber (> 0.4 mm)

Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)

Recommended, gloves(breakthrough time) > 8 hours: Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm),

nitrile rubber (> 0.75 mm)

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 10/19

SECTION 8: Exposure controls/personal protection

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 : Use chemical-resistant protective suit / disposable overall.

> 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.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Based on the hazard and potential for exposure, select a respirator that meets the Respiratory protection

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

Appearance

Physical state : Liquid.

Colour : Aluminium, ,Aluminium red toned

Odour : Characteristic. [Strong]

Odour threshold : Not applicable. Melting point/freezing point

: Not applicable. Initial boiling point and : Lowest known value: 119°C (246.2°F) (butan-1-ol). Weighted average:

251.69°C (485°F) boiling range

Flammability (solid, gas) : Not applicable.

Upper/lower flammability or explosive limits

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

: Closed cup: 41°C (105.8°F) Flash point

Lowest known value: 280 to 470°C (536 to 878°F) (hydrocarbons, C9, **Auto-ignition temperature**

aromatics).

Decomposition temperature

: Not available. Not applicable.

Viscosity Kinematic (40° C): >20.5 mm²/s

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Partition coefficient: n-octanol/ : Not available.

water

pH

Highest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene). Weighted Vapour pressure

average: 0.18 kPa (1.35 mm Hg) (at 20°C)

Date of revision : 29.05.2024 : 24.07.2023 Version : 1.03 11/19 Original preparation date

SECTION 9: Physical and chemical properties

Highest known value: 0.84 (ethylbenzene) Weighted average: 0.62compared

with butyl acetate

1.33 g/cm³

Density

Vapour density : Highest known value: 11.7 (Air = 1) (epoxy resin (MW ≤ 700)). Weighted

average: 9.81 (Air = 1)

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 : 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:

oxidising materials

10.6 HazardousUnder 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
2,2-bis[4	LD50 Dermal	Rabbit	20 g/kg	-
(2,3-epoksipropoksi)fenil]-				
propan				
	LD50 Oral	Mouse	15600 mg/kg	-
xylene	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat - Male	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
butan-1-ol	LD50 Oral	Rat	790 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 Smart Pack Alu Comp A	21639.2	18785.6	N/A	140.9	90.1
xylene	4300	1100	N/A	11	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
benzyl alcohol	1230	N/A	N/A	N/A	1.5
butan-1-ol	500	N/A	N/A	N/A	N/A

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 12/19

SECTION 11: Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Phenol, methylstyrenated	Skin - Mild irritant	Mammal - species unspecified	-	-	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
epoxy resin (MW 700-1200)	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Mammal - species unspecified	-	-	-
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-

Conclusion/Summary

: Not available.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	skin	Mammal - species unspecified	Sensitising
Phenol, methylstyrenated	skin	Mammal - species unspecified	Sensitising
epoxy resin (MW 700-1200)	skin	Mammal - species unspecified	Sensitising

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 toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 13/19

Conforms to regulation No. 30105, Turkey KKDIK, Annex 2

Jotamastic Smart Pack Alu Comp A

SECTION 11: Toxicological information

Aspiration hazard

Product/ingredient name	Result
xylene hydrocarbons, C9, aromatics ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

: No known significant effects or critical hazards. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

: Adverse symptoms may include the following: **Eye contact**

pain or irritation watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate

effects

: Not available.

: Not available. Potential delayed effects

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

Date of revision : 29.05.2024 : 24.07.2023 Original preparation date Version : 1.03 14/19

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 3.1 mg/l	Fish - pimephales promelas	96 hours
	Chronic NOEC 0.3 mg/l	Fish	21 days
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
hydrocarbons, C9, aromatics	Acute EC50 <10 mg/l	Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 2.93 mg/l	Daphnia	48 hours
	Acute LC50 4.2 mg/l	Fish	96 hours

Conclusion/Summary

: Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	-	-	Not readily
xylene	-		Readily
hydrocarbons, C9, aromatics ethylbenzene	-		Not readily Readily
benzyl alcohol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2,2-bis[4(2,3-epoksipropoksi) fenil]-propan	2.64 to 3.78	31	low
Phenol, methylstyrenated	3.627	-	low
xylene	3.12	8.1 to 25.9	low
hydrocarbons, C9, aromatics	-	10 to 2500	high
ethylbenzene	3.6	-	low
benzyl alcohol	0.87	<100	low
butan-1-ol	1	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
epoxy resin (MW ≤ 700)	No	N/A	No	No	No	N/A	No
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Recommend	Specified led)	Specified
xylene	No	N/A	No	No	No	N/A	No
hydrocarbons, C9, aromatics	No	N/A	No	No	No	N/A	No
epoxy resin (MW 700-1200)	No	N/A	N/A	No	N/A	N/A	N/A
benzyl alcohol	No	N/A	No	No	No	N/A	No
butan-1-ol	No	N/A	N/A	No	N/A	N/A	N/A

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 15/19

SECTION 12: Ecological information

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

Waste list

: Yes.

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. 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. Marine pollutant (epoxy resin (MW ≤ 700))	Paint
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 30 Tunnel code (D/E)

Date of revision : 29.05.2024 Original preparation date : 24.07.2023 Version : 1.03 16/19

Conforms to regulation No. 30105, Turkey KKDIK, Annex 2

Jotamastic Smart Pack Alu Comp A

SECTION 14: Transport information

ADN

The environmentally hazardous substance mark is not required when transported

in sizes of ≤5 L or ≤5 kg.

IMDG

The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5

Emergency schedules F-E, S-E

IATA

The environmentally hazardous substance mark may appear if required by other

transportation regulations.

Marking

The environmental hazardous / marine pollutant mark is only applicable for packages containing more than 5 litres for liquids and 5 kg for solids.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Intrinsic property	Ingredient name		Reference number	Date of revision
₩PvB	oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Recommended	D(2023) 8585-DC	23.01.2024

Annex 17 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

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 E2

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

Date of revision : 29.05.2024 : 24.07.2023 Version : 1.03 17/19 Original preparation date

Conforms to regulation No. 30105, Turkey KKDIK, Annex 2

Jotamastic Smart Pack Alu Comp A

SECTION 15: Regulatory information

Intrinsic property	Ingredient name		Reference number	Date of revision
vPvB	oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Recommended	D(2023) 8585-DC	23.01.2024

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Industrial emissions : Listed

(integrated pollution prevention and control) -

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

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

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

: ATE = Acute Toxicity Estimate **Abbreviations and**

EUH statement = SEA-specific Hazard statement acronyms

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

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SECTION 16: Other information

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [SEA/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4	
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 Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - 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	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1B	SKIN SENSITISATION - Category 1B	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	

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revision

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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.

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