### **SAFETY DATA SHEET**



### Jotamastic SF Alu Comp A

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

1.1 Product identifier

Product name : Jotamastic SF Alu Comp A

Product code : 9002
Product description : Paint.
Product type : Liquid.

Other means of : Not available.

identification

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

Use in coatings - Industrial use
Use in coatings - Professional use

1.3 Details of the supplier of the safety data sheet

Jotun A/S Jotun Paints (Europe) Ltd.

P.O.Box 2021 Stather Road

3202 Sandefjord Flixborough, Scunthorpe Norway North Lincolnshire

Tel: + 47 33 45 70 00 DN15 8RR Fax: +47 33 45 72 42 England

E-mail: SDSJotun@jotun.no

Tel: +44 17 24 40 00 00 Fax: +44 17 24 40 01 00

1.4 Emergency telephone number

**National advisory body/Poison Centre** 

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

**Supplier** 

Telephone number : +47 33 45 70 00 Jotun Norway (head office)

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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 :





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### **SECTION 2: Hazards identification**

Signal word : Warning.

**Hazard statements** : 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.

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.

Supplemental label

elements

: EUH205 - Contains epoxy constituents. May produce an allergic reaction.

Annex XVII - Restrictions on 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

: Not applicable.

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII 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.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
epoxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
epoxy-formaldehyde resin (MW<700)	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[1]
oxirane, mono[(c12-14-alkyloxy) methyl]derivs	REACH #: 01-2119485289-22 EC: 271-846-8	≤10	Skin Irrit. 2, H315 Skin Sens. 1B, H317	[1]

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### **SECTION 3: Composition/information on ingredients**

1		1	1	1
hydrocarbons, c9-unsatd., polymd.	CAS: 68609-97-2 REACH #: 01-2119555292-40 EC: 701-299-7	≤5	Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
benzyl alcohol	CAS: 71302-83-5 REACH #: 01-2119492630-38 EC: 202-859-9	≤5	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
Phenol, methylstyrenated	CAS: 100-51-6 Index: 603-057-00-5 REACH #: 01-2119555274-38	≤3	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1] [2]
Phenol, styrenated	EC: 700-960-7 CAS: 68512-30-1 REACH #: 02-2119629611-43 EC: 262-975-0	≤3	Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]
complex mixture of diamid waxes	CAS: 61788-44-1 REACH #: 01-0000017860-69	≤3	Aquatic Chronic 2, H411 Aquatic Chronic 4, H413	[1]
hydrocarbons, C9, aromatics	EC: 432-430-3 REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≤3	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
			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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

Substance classified with a health or environmental hazard

[2] Substance meets the criteria for vPvB

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

### 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.

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### **SECTION 4: First aid 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 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

### 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.

See toxicological information (Section 11)

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

Unsuitable extinguishing media

: Do not use water jet.

### 5.2 Special hazards arising from 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. 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 combustion products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds 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.

### SECTION 5: Firefighting measures

**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

### 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. 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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. 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 hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

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### **SECTION 7: Handling and storage**

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. 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.

### Seveso Directive - Reporting thresholds

### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
E2	200 tonne	500 tonne

See Technical Data Sheet / packaging for further information.

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

### **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 appropriate monitoring standards. 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
epoxy resin (MW ≤ 700)	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/m³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m³		Systemic
epoxy-formaldehyde resin (MW<700)	DMEL	Short term Dermal	8.3 µg/cm²	Workers	Local
	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8.7 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term	29.39 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	62.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	104.15 mg/ kg bw/day	Workers	Systemic
oxirane, mono[(c12-14-alkyloxy) methyl]derivs	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
Thousand the second sec	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.87 mg/m <sup>3</sup>	General population	Systemic

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### **SECTION 8: Exposure controls/personal protection**

DNEL   Long term   Dnemal   Dn	•	•	•			
DNEL   Long term Dermal   S.6 mg/kg   Workers   Systemic   Syste		DNEL	Long term Dermal		Workers	Systemic
hydrocarbons, c9-unsatd, polymd.  DNEL   Long term Dermal   Long term Dermal   DNEL   Long term Dermal   Lo		DNEI	Long term		Workers	Systemic
hydrocarbons, c9-unsatd, polymd.  DNEL   Long term Dermal   DNEL   Long term Dermal   Long term Dermal   DNEL   DNEL   DNEL   DNEL   Long term Dermal   Long term Dermal   DNEL   Long term Dermal   DNEL   Long term Dermal   Long term Dermal   Long term Dermal   DNEL   Long term Dermal   Long t		DINEL		3.6 mg/m	VVOIKEIS	Systemic
DNEL Long term Oral bw/day hw/day hw/	hydrocarbons, c9-unsatd., polymd.	DNEL			Workers	Systemic
benzyl alcohol  DNEL   Long term Oral   Long term Oral   Long term Dermal   DNEL   Long term Dermal Inhalation   DNEL   Long term Oral   DNEL   Long term Oral Inhalation   DNEL   Long term Oral   Long term Oral Inhalation   DNEL   Long term Oral   Long ter		DNEL			Workers	Systemic
DNEL Long term Dermal population DNEL Short term Dermal Inhalation DNEL Short term Inhalation DNEL Short term Dermal Inhalation DNEL Short term Inhalation DNEL Long term Dermal Inhalation D	benzyl alcohol	DNEL				Systemic
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DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Drace DNEL Long term Dnet DNEL Long term Dnet Dnet Dnet Dnet Dnet Dnet Dnet Dnet		DNEL	Short term Oral	20 mg/kg		Systemic
DNEL long term Inhalation Short term Inhalation DNEL Short term Dermal Inhalation DNEL Short term Dermal Inhalation DNEL Short term Inhalation DNEL Short term Inhalation Inhalation DNEL Long term Dermal Inhalation Inhala		DNEL	Short term Dermal	20 mg/kg	General	Systemic
Inhalation   Short term   Sho		DNEL	Long term			Systemic
Inhalation   Short term Dermal   Short term   Short ter				g		- <b>,</b>
DNEL Short term Dermal DNEL Short term Inhalation DNEL Long term Dermal Inhalation DNEL Long term Dermal Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Dermal Inhalation DNEL Long term Dermal DNEL Long term Oral DNEL Long term Dermal DNEL DNEL DNE		DNEL		27 mg/m³		Systemic
Phenol, methylstyrenated  DNEL   DNEL   Long term   Long term   Long term   Dong   Long term   Dong term   Dong   Long term   Dong term   Dong   Long term   Dong term   Dong term   Dong term   Dong term   Dong term   Dong		DNEL				Systemic
DNEL Long term Inhalation  DNEL Long term Dermal  DNEL Long term Dermal  DNEL Long term Oral  DNEL Long term Dermal  DNEL Long term Oral  DNEL Long term Dermal  DNEL Long term Oral  DNEL Cong term O		DNEL			Workers	Systemic
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DNEL Long term Dermal 8 mg/kg bw/day population [Consumers] General population [Consumers] Ge		DNEL			population	Systemic
DNEL long term Inhalation  DNEL Long term Oral  DNEL Long term Dermal  DNEL Long term Dermal  DNEL Long term Dermal  DNEL Long term Dermal  DNEL Long term Oral  DNEL Long term Dermal  DNEL Derma Derma Derma Dermal  DNEL Derma		DNEL	Long term Dermal		General population	Systemic
DNEL Long term Oral 2 4 mg/kg bw/day population [Consumers] General population [Consumers] Ge		DNEL		28 mg/m³	General population	Systemic
DNEL Long term Oral DNEL Long term Oral DNEL Long term Dermal Inhalation DNEL Long term Dermal DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Long term Oral		General population	Systemic
DNEL Long term Inhalation DNEL Long term Dermal DNEL Systemic DNEL Systemic DNEL Systemic		DNEL	Long term Oral		General	Systemic
DNEL Long term Dermal DNEL DNEL Long term Dermal DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL		0.348 mg/	General	Systemic
DNEL Long term Dermal Long term Dermal DNEL Long term D		DNEL	Long term			Systemic
Phenol, styrenated  DNEL Long term Dermal bw/day bw/day 0.75 mg/ kg bw/day 0.75 mg/ kg bw/day DNEL Long term Dermal DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL				Systemic
Phenol, styrenated  DNEL Long term Oral  DNEL Long term Dermal		DNEL	Long term Dermal	3.5 mg/kg		Systemic
DNEL Long term Dermal  DNEL Long term Inhalation DNEL Long term Dermal  DNEL Long term Dermal  DNEL Long term Dermal  DNEL Long term Dermal  DNEL Long term Inhalation	Phenol, styrenated	DNEL	Long term Oral	0.75 mg/		Systemic
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DNEL Long term Dermal 2.1 mg/kg bw/day  DNEL Long term 7.4 mg/m³ Workers Systemic Systemic Inhalation		DNEL			General	Systemic
DNEL Long term 7.4 mg/m³ Workers Systemic Inhalation		DNEL				Systemic
		DNEL			Workers	Systemic
hydrocarbons, C9, aromatics DNEL Long term Dermai 12.5 mg/ Workers Systemic kg bw/day	hydrocarbons, C9, aromatics	DNEL	Long term Dermal	12.5 mg/ kg bw/day	Workers	Systemic

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### **SECTION 8: Exposure controls/personal protection**

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DNEL	Long term Inhalation	151 mg/m³	Workers	Systemic
DNEL	Long term Dermal	7.5 mg/kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Inhalation	32 mg/m³	General population [Consumers]	Systemic
DNEL	Long term Oral	7.5 mg/kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Inhalation	0.41 mg/m <sup>3</sup>		Systemic
DNEL	Long term Inhalation	1.9 mg/m³	Workers	Systemic
DNEL	Long term Inhalation	178.57 mg/ m³	General population	Local
DNEL	Short term Inhalation	640 mg/m <sup>3</sup>	General population	Local
DNEL	Long term Inhalation	837.5 mg/ m³	Workers	Local
DNEL	Short term Inhalation	1066.67 mg/m³	Workers	Local
DNEL	Short term Inhalation	1152 mg/ m³	General population	Systemic
DNEL	Short term Inhalation	1286.4 mg/ m³	Workers	Systemic

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
epoxy resin (MW ≤ 700)	Fresh water	0.006 mg/l	-
	Marine	0.0006 mg/l	-
	Sewage Treatment	10 mg/l	-
	Plant		
	Fresh water sediment	0.996 mg/l	-
	Marine water sediment	0.0996 mg/l	-
	Soil	0.196 mg/l	-
hydrocarbons, c9-unsatd., polymd.	Fresh water	54 μg/l	-
	Marine	5.4 µg/l	-
	Sewage Treatment	2.2 mg/l	-
	Plant		
	Fresh water sediment	1584 mg/kg dwt	-
	Marine water sediment	158 mg/kg dwt	-
	Soil	316.7 mg/kg dwt	-
	Secondary Poisoning	200 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	-
Phenol, methylstyrenated	Fresh water	14 μg/l	-
	Marine	1.4 µg/l	-
	Sewage Treatment	2.4 mg/l	-
	Plant		
	Fresh water sediment	52.9 mg/kg dwt	-
	Marine water sediment	5.3 mg/kg dwt	-
	Soil	10.5 mg/kg dwt	-

### 8.2 Exposure controls

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### **SECTION 8: Exposure controls/personal protection**

## Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **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.

#### **Gloves**

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

May be used, gloves(breakthrough time) 4 - 8 hours: polyvinyl alcohol (PVA) (> 0.3 mm)

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

Recommended, gloves(breakthrough time) > 8 hours: fluor rubber (> 0.35 mm), Viton® (> 0.7 mm), 4H/Silver Shield® (> 0.07 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm), nitrile rubber (> 0.75 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.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Respiratory protection

: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

## **Environmental exposure** controls

: Do not allow to enter drains or watercourses.

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### **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

Characteristic. Odour **Odour threshold** : Not applicable. Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

Lowest known value: 135 to 210°C (275 to 410°F)(hydrocarbons, C9, aromatics).

Weighted average: 272.25°C (522°F)

**Flammability** : Not applicable.

**Upper/lower flammability or** 

explosive limits

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

Closed cup: 83°C (181.4°F) Flash point

: Lowest known value: >375°C (>707°F) (hydrocarbons, c9-unsatd., polymd.). **Auto-ignition temperature** 

**Decomposition temperature** : Not available. pН : Not applicable.

**Viscosity** Kinematic (40°C): >20.5 mm<sup>2</sup>/s

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Partition coefficient: n-octanol/ : Not available.

water

Vapour pressure : Highest known value: 0.3 kPa (2.5 mm Hg) (at 20°C) (hydrocarbons, C9,

aromatics). Weighted average: 0.03 kPa (0.23 mm Hg) (at 20°C)

**Evaporation rate** : 0.007 (benzyl alcohol) compared with butyl acetate

: 1.643 to 1.67 g/cm<sup>3</sup> **Density** 

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

average: 10.26 (Air = 1)

**Explosive properties** Not available. : Not available. **Oxidising properties** 

**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 : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

: Decomposition products may include the following materials: carbon monoxide, 10.6 Hazardous carbon dioxide, smoke, oxides of nitrogen. decomposition products

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## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	20 g/kg	-
	LD50 Oral	Mouse	15600 mg/kg	-
oxirane, mono[	LD50 Oral	Rat	17100 mg/kg	-
(c12-14-alkyloxy)methyl]				
derivs				
hydrocarbons,	LD50 Dermal	Rat	2000 mg/kg	-
C9-unsaturated,				
polymerized				
	LD50 Oral	Rat	2000 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-

### **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 SF Alu Comp A oxirane, mono[(c12-14-alkyloxy)methyl]derivs benzyl alcohol Phenol, styrenated	35142.9	N/A	N/A	314.3	N/A
	17100	N/A	N/A	N/A	N/A
	1230	N/A	N/A	11	N/A
	2500	N/A	N/A	N/A	N/A

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
epoxy resin (MW ≤ 700)	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
epoxy-formaldehyde resin (MW<700)	Skin - Mild irritant	Mammal - species unspecified	-	-	-
oxirane, mono[ (c12-14-alkyloxy)methyl]derivs	Skin - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 μl	-
benzyl alcohol	Eyes - Mild irritant	Mammal - species unspecified	-	-	-
Phenol, methylstyrenated	Skin - Mild irritant	Mammal - species unspecified	-	-	-
Phenol, styrenated	Eyes - Mild irritant	Rabbit	-	0.1 Mililiters	-
·	Skin - Mild irritant	Mammal - species unspecified	-	-	-
	Skin - Mild irritant	Rabbit	-	0.5 Mililiters	-

### **Sensitisation**

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### **SECTION 11: Toxicological information**

Product/ingredient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 700)	skin	Mammal - species unspecified	Sensitising
epoxy-formaldehyde resin (MW<700)	skin	Mammal - species unspecified	Sensitising
oxirane, mono[ (c12-14-alkyloxy)methyl] derivs	skin	Mammal - species unspecified	Sensitising
hydrocarbons, C9-unsaturated, polymerized	skin	Mouse	Sensitising
Phenol, methylstyrenated	skin	Mammal - species unspecified	Sensitising
Phenol, styrenated	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

No known significant effects or critical hazards.

### **Carcinogenicity**

No known significant effects or critical hazards.

### **Reproductive toxicity**

Developmental effects : No known significant effects or critical hazards.Fertility effects : No known significant effects or critical hazards.

### **Teratogenicity**

No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

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

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

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

### 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.

### Symptoms related to the physical, chemical and toxicological characteristics

**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.

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

to very low levels.

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### **SECTION 11: Toxicological information**

Other information : None identified.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
epoxy resin (MW ≤ 700)	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
epoxy-formaldehyde resin (MW<700)	Acute EC50 2 mg/l	Daphnia	24 hours
,	Acute LC50 2 mg/l	Fish	96 hours
Phenol, styrenated	Acute EC50 100 mg/l	Algae	72 hours
•	Acute EC50 54 mg/l	Daphnia	48 hours
	Acute LC50 25.8 mg/l	Fish	96 hours
hydrocarbons, C9, aromatics	Acute EC50 <10 mg/l	Daphnia	48 hours
	Acute IC50 <10 mg/l	Algae	72 hours
	Acute LC50 <10 mg/l	Fish	96 hours

**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
epoxy resin (MW ≤ 700)	-	-	Not readily
epoxy-formaldehyde resin	-	-	Not readily
(MW<700)			
benzyl alcohol	-	-	Readily
hydrocarbons, C9, aromatics	-	-	Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	2.64 to 3.78	31	low
epoxy-formaldehyde resin (MW<700)	2.7	-	low
oxirane, mono[	3.77	160 to 263	low
(c12-14-alkyloxy)methyl]			
derivs			
hydrocarbons,	3.627	-	low
C9-unsaturated, polymerized			
benzyl alcohol	0.87	<100	low
Phenol, methylstyrenated	3.627	-	low
hydrocarbons, C9, aromatics	-	10 to 2500	high

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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### **SECTION 12: Ecological information**

Product/ingredient name	PBT	Р	В	T	vPvB	vP	vB
poxy resin (MW ≤ 700)	No	N/A	No	No	No	N/A	No
epoxy-formaldehyde resin (MW<700)	No	N/A	N/A	No	N/A	N/A	N/A
oxirane, mono[ (c12-14-alkyloxy)methyl] derivs	No	N/A	No	No	No	N/A	No
hydrocarbons, C9-unsaturated, polymerized	No	N/A	N/A	No	N/A	N/A	N/A
benzyl alcohol	No	N/A	No	No	No	N/A	No
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Recommended)	Specified	Specified
Phenol, styrenated	No	N/A	N/A	No	N/A	N/A	N/A
complex mixture of diamid waxes	No	N/A	N/A	No	N/A	N/A	N/A
hydrocarbons, C9, aromatics	No	N/A	No	No	No	N/A	No

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

: Yes.

### **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 catalogue

Waste code	Waste designation	
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.

Type of packaging	Waste catalogue	
CEPE Guidelines	15 01 10*	packaging containing residues of or contaminated by hazardous substances

### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

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### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin (MW ≤ 700), epoxy-formaldehyde resin (MW<700))	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin (MW ≤ 700), epoxy-formaldehyde resin (MW<700))	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin (MW ≤ 700), epoxy-formaldehyde resin (MW<700)). Marine pollutant (epoxy resin (MW ≤ 700), epoxy-formaldehyde resin (MW<700))	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin (MW ≤ 700), epoxy-formaldehyde resin (MW<700))
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

### **Additional information**

ADR/RID

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### Hazard identification number 90

Tunnel code (-)

**ADN** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG** 

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### Emergency schedules F-A, S-F

**IATA** 

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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.

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### SECTION 15: Regulatory information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

### Annex XIV - List of substances subject to authorisation

### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

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

### Ozone depleting substances

Not listed.

### **Prior Informed Consent (PIC)**

Not listed.

### **Persistent Organic Pollutants**

Not listed.

**Annex XVII - Restrictions**: Not applicable.

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

### **Seveso Directive**

This product is controlled under the Seveso Directive.

### **Danger criteria**

<u> </u>	
Category	
Caleudiv	

E2

### **EU regulations**

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

### **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.

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### **SECTION 15: Regulatory information**

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

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

### **Full text of classifications**

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
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - 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. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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**Notice to reader** 

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Jotamastic SF Alu Comp A

### **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.

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