Safety Data Sheet



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1. Identification of the Substance/Preparation and of the Company/Undertaking

Trade Name: Supplier:

GC11 Alfa Laval Lund AB

Box 74

Product Type: SE-221 00 Lund

Epoxy adhesive for gaskets Sweden

Tel: +46 46 36 65 00

Mail: sds.question@alfalaval.com

Emergency number: +46 8 33 70 43 (Open 24 h)

2. Hazards Identification

Classification Xi; R36/38, R43, N; R51/53

Description of hazards Health: may cause sensitisation by skin contact. Irritating to eyes

and skin.

Environmental: toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Other Contains epoxy.

3. Composition/Information on Ingredients

Hazardous ingredient	Weight-%	CAS No	EC No	Symbol	Risk Phrases
Epoxy resin system	60 - 100	25068-38-6	500-033-5	Xi, N	R36/38-43-51/53
Calcium carbonate	10 - 30	1317-65-3	215-279-6		
Silica, amorphous	1 - 5	112945-52-5	231-525-4		
See section 16 for explanation to R-phrases.					

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4. First-Aid Measures

General In case of doubt, seek medical attention.

Inhalation Remove to fresh air, keep warm and rest.

Skin contact Remove contaminated clothing. Wash area with soap and water.

Call a physician if irritation persists.

Eye contact Flush with tempered water for at least 15 minutes. Check and

remove any contact lenses. Lifting the upper and lower eyelids.

Call a physician if irritation persists.

If Swallowed Rinse immediately the mouth and give water or milk to drink if the

victim is fully conscious. Do not induce vomiting. Consult a

physician.

5. Fire-Fighting Measures

Recommended extinguishing media Dry chemical, carbon dioxide (CO2), water spray, foam. Use

extinguishing agents depending on the surrounding materials.

Not recommended extinguishing

media

Water jet.

Fire and explosion hazards

Not classified as flammable. Hazardous degradation products:

heavy fumes, carbon dioxide (CO2), carbon monoxide (CO),

phenols, chloro compounds.

Personal precautions Wear self-contained breathing apparatus.

Other information Remove or cool containers exposed to fire with water.

6. Accidental Release Measures

Personal precautions Evacuate unprotected and untrained personnel from hazard area.

For personal precautions, see section 8.

Environmental precautions Prevent release to municipal drainage, watercourses or soil.

Spillage Absorb with inert absorbent, scrape up and place in a suitable

container for disposal.

7. Handling and Storage

Handling Prevent contact with the product. For personal protection, see

section 8. Provide appropriate general mechanical ventilation

and/or local exhaust ventilation. Handle the product in

accordance with national legislation, which may provide guidance on health, safety and environmental aspects. Personnel with pronounced allergic preference for epoxy should not handle the

product.

Storage Keep container tightly closed at 20 °C. Avoid storing temperature

between 7 and 16 °C because the product may crystallize in this

temperature range.

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8. Exposure Controls/Personal Protection

Occupational exposure limits (AFS) Dust, inorganic, respirable; (8h) 5 mg/m³.

threshold limit value when grinding cured product.

Exposure measurements Choose appropriate personal protection equipments after

consulting respectively suppliers. Arrange sufficient ventilation.

Do not eat, drink or smoke when using this product.

Respiratory protection When ventilation is inadequate wear appropriate full face

respirator with filter A, when grinding use P2 particulate prefilters. It may be necessary to use wear full face air-purifying respirator if

ventilation is inadequate or in confined areas.

Gloves Use resistant gloves, for example 4H, multi layer gloves. For

short exposure use neoprene or nitrile gloves. Supplier of gloves should be contacted in order to find the most appropriate type.

Eye protection Wear vented safety goggles with side shields when risk for

splashing.

Skin protection Wear suitable full body protective clothing.

Other information Specified personal precaution is recommended, a risk

assessment of actual work situation may lead to other demands. Ensure that eyewash stations are close to the work station location. Isolate and wash contaminated clothes before re-use.

Wash immediately exposed skin with soap and water.

9. Physical and Chemical Properties

Appearance Liquid

Odour Epoxy

Colour Green

Solubility Before curing; soluble in organic solvents.

Solubility in water Insoluble

Density $1,4 \text{ kg/dm}^3 (20 \,^{\circ}\text{C})$

Flash-point Not flammable

Vapour pressure Low

Viscosity 41500 cPs

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10. Stability and Reactivity

Conditions to avoid Avoid temperature above 66 °C.

Materials to avoid None

Hazardous decomposition products When exposed to fire or high temperature heavy fumes, carbon

dioxide (CO2), carbon monoxide (CO), phenols, chloro

compounds may be formed.

Stability Stable under recommended storage and handling conditions.

11. Toxicological Information

General Main hazard when handling is the allergy inducing properties of

the product.

Inhalation Inhalation of vapours may cause respiratory system irritation.

Dust from grinding of cured product may cause respiratory

system irritation.

Skin contact Irritation to skin. May cause an allergic reaction by skin contact

and hypersensitiveness to epoxy.

Eye contact Irritating to eyes.

Ingestion May cause irritation of mucous membrane, indisposition, vomiting

and diarrhoea.

Chronic effects Enhanced risk to lung diseases after prolonged or repeated

inhalation of dust.

Sensitisation May cause sensitisation by skin contact.

Carcinogenic effects The product may contain low concentration of crystalline silica,

which may cause cancer.

12. Ecological Information

Ingredient Epoxy resin

Acute, aquatic organisms, fish 1,5-7,7 mg/l, test method: LC50, art: Salmo gairdneri, 96 h

Acute, aquatic organisms, alga 220 mg/l, test method: EC50, art: Chlorophyta, 96 h

Acute, aquatic organisms, daphnia 1,1-3,6 mg/l, test method: EC50, art: Dafnia magna, 24 h

Eco toxicity Toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

Mobility Insoluble in water, sink to the ground.

Persistent and biodegradability Not readily biodegradable.

Bio accumulation Not known.

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13. Disposal Considerations

EWC-code: 200127* Paint, inks, adhesives and resins containing

dangerous substances.

Classified as hazardous waste Yes

Disposal Dispose of according to all state and local applicable regulations.

The EWC-code is recommended. Another code may be used in

other field of application as stated in this document.

14. Transport Information

Land transport ADR/RID and

GGVS/GGVE (cross-

border/domestic)

UN-Number: 3082

Proper shipping name: Environmentally hazardous substance,

liquid n.o.s. (epoxy resin)

Class: 9

Classification code: M6
Packaging group: III
Tunnel restriction code: (E)
Environmentally hazardous: Yes

Maritime transport IMDG/GGVSea UN Number: 3082

Proper shipping name: Environmentally hazardous substance,

liquid n.o.s. (epoxy resin)
Packaging group: III
EMS Number: F-A, S-F
Marine pollutant: Yes

Air transport ICAO-TI and IATA-

DGR

UN/ID Number: 3082

Proper shipping name: Environmentally hazardous substance,

liquid n.o.s. (epoxy resin)

Class: 9

Subsidiary risk: -Packaging group: III

Environmentally hazardous: Yes

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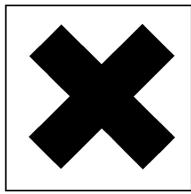
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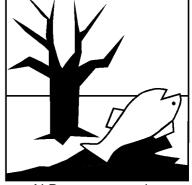
15. Regulatory Information

Ingredient

Label Symbol(s)

Epoxy resin





Xi Irritant

N Dangerous to the environment

Risk Phrases R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Safety Phrases S28 After contact with skin, wash immediately with plenty of

water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face

protection.

S61 Avoid release to the environment. Refer to special

instructions/Safety data sheet.

16. Other Information

Explanation to R-phrases in section

3

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Changes have been made in section 14.

LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.