

SAFETY DATA SHEET

2018-09-20 Version 1

Replaces -

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

ERADUR ESD RESISTENT SB, A

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

Use: Epoxy mastic intended for industrial flooring. Comp A

1.3 Details of the supplier of the safety data sheet

Supplier: Eradur AB
Granitgatan 11, SE-254 68 HELSINGBORG, SWEDEN
Tel: 0046-42 29 22 50, Fax: 0046-42 29 22 55
Web: www.eradur.com
info@eradur.com

1.4 Emergency telephone number

Contact National Poison Centre via Hospital or Registered Medical Practitioner

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 1272/2008: Skin Irr. 2; Eye Irr. 2; Skin sens 1; Aquatic Chronic. 2; Muta. 2



2.2 Label elements

Labelling: GHS 07, GHS 08, GHS 09
Signal word: Warning
Contains: Epoxy constituents. 2,3-epoxypropyl o-tolyl ether.

H-Phrases:	H315 H317 H319 H341 H411	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects with skin contact Toxic to aquatic life with long lasting effects.
P-Phrases:	P201 P202 P261 P272 P273 P280 P302 + P352 P308 + P313 P333 + P313 P305 + P351 + P338 P337 + P313 P362 + P364 P273 P405	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Avoid release to the environment. Store locked up.

Hazards: The preparation may be sensitising on skin contact It may also irritate the skin and the eyes. Repeated exposure may increase this effect.

2.3 Other hazards

The product does not meet the criteria for classification as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Substances classified as hazardous for fire, health and the environment in accordance with applicable regulations of the European Chemicals Agency for the classification and labelling of chemical products and substances with occupational exposure limit values.

COMPONENT	CAS-no	EC-no	Content	67/548 EEC (*)	EC 1272/2008 (*)
Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight \leq 700)	25068-38-6	500-033-5	30-60%	Xi, N; R36/38-43-51/53	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Aquatic Chronic 2, H411
Formaldehyde, polymer with 2-(chloromethyl)oxirane and phenol	9003-36-5	500-006-8	10-30%	Xi, N; R36/38-43-51/53	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Aquatic Chronic 2, H411
2,3-epoxypropyl o-tolyl ether	2210-79-9	218-645-3	5-10%	Xn, N; R38-43-51/53-68	Muta. 2, H341 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

(*) Phrases in full text see section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General information: In case of doubt, or when symptoms persist, seek medical attention. Never give an unconscious person anything to eat or drink. Bring the SDS at doctor visits.
- Inhalation: Fresh air. Rest. If necessary respiratory assistance / artificial respiration. If symptoms occur - consult a doctor.
- Eye contact: Remove contact lenses, rinse with plenty of water for 5 minutes, holding the eyelids apart and seek medical attention if symptoms occur.
- Skin contact: Take off contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do **not** use organic solvents.
- Ingestion: Rinse mouth. Drink milk or water. DO NOT induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

This product may cause sensitization by skin contact. Can cause severe allergic reaction in sensitized individuals.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, carbon dioxide, dry powder or water spray / fog.

Unsuitable extinguishing media: Direct water jet / high pressure.

5.2 Special hazards arising from the substance or mixture

General recommendations: Fire may produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

5.3 Advice for firefighters

Cool closed containers exposed to fire with water. Do not allow run off from fire fighting to enter drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid skin contact with the product, avoid breathing vapours.

6.2 Environmental precautions

Contain spillage with non-combustible material such as sand, earth, vermiculite or diatomaceous earth. Prevent release to drains or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities. Dispose of as chemical waste (hazardous waste).

6.3 Methods and material for containment and cleaning up

Shovel into suitable container for disposal according to local regulations (see section 13). Clean preferably with a detergent, avoid use of solvents.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Persons with preexisting skin allergy may not be exposed to or work with this product.

The use requires effective ventilation. Avoid contact with eyes and skin. Avoid inhalation of dust, particulates and spray mist arising from the application of this product. Avoid inhalation of dust from sanding.

Personal protective equipment, see Section 8. When handling it is forbidden to smoke, eat and drink. Make sure the appropriate safety and health rules are observed.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place in tightly closed containers. The product is not classified as flammable.

Observe label. Keep away from oxidising agents, strong alkalis, strong acids.

Opened containers must be carefully resealed and kept upright to prevent leakage. Store only in original container.

7.3 Specific end use(s):

Epoxy mastic intended for industrial flooring.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

8.2 Exposure controls

Technical measures Use only in well-ventilated areas.

Personal protective equipment

Respiratory protection: In situations where spray mist occurs, use appropriate certified respirators.

Hand protection: Polyethylene or polypropylene with inner glove of fabric needed. PVC or latex gloves not recommended. Barrier creams may help to protect the skin, they should however not be applied after exposure has occurred.

Eye/face protection: In case of splash hazard wear tight-fitting goggles or face shield.

Skin protection: Wear protective clothing made of natural fibres.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties

Appearance:	Pigmented liquid with a slight characteristic odour
Flash point:	> 100 °C
Melting point:	N/A
Viscosity 20°C:	2,3-3,5 Pa s
Density:	ca 1,2 g/cm ³
Vapour pressure:	< 25 Pa

9.2 Other information

Solubility in water:	Insoluble
Solubility in organic solvents:	Soluble in aromatics, ketones, esters, etc.

10. STABILITY AND REACTIVITY

10.1 Reactivity

May react with oxidizing agents.

10.2 Chemical stability

Stable if used properly.

10.3 Possibility of hazardous reactions

Can react violently with amines, mercaptans and acids under heat development.
May polymerize violently at temperatures above 200 ° C.

10.4 Conditions to avoid

Avoid release to the environment.

10.5 Incompatible materials

No specific data.

10.6 Hazardous decomposition products

Fire may produce dense black smoke.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There are no data available on the product itself. The preparation has been assessed and classified by the included substances classification in accordance with applicable regulations.

Acute oral toxicity:	LD50 Rat: > 10 000 mg/kg (epoxy resin of bisphenol A).
	LD50 Rat: 4 000 mg/kg (2,3-epoxypropyl-o-tolyether).
	LC50 Rat: 6,09 mg/l/4h (2,3-epoxypropyl-o-tolyeter)
Acute dermal toxicity	LD50 Rabbit: > 2 100 mg/kg (2,3-epoxypropyl-o-tolyeter).
Mutagenicity:	Positive in vitro tests, but negative in the in vivo tests (epoxy resin bisphenol A). Possibly mutagenic, category 3. (2,3-epoxypropyl-o-tolyl ether).

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be sensitizing and irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies.

Users should avoid exposing themselves to the skin, spray mist and fumes from the preparation.

12. ECOLOGICAL INFORMATION

The preparation has been assessed according to current European legislation and is classified based on the classification of included substances. See paragraph 2, 15, 16.

12.1 Toxicity

There is no data available on the product itself.

The product must not be discharged into the drains or watercourses.

Aquatic toxicity:	(Data for epoxy resin bisphenol A, average molecular weight < 700 g/mol):
Acute toxicity: LC50 / 96h:	Rainbow trout: 1,5 - 7,7 mg/l.
EC50 / 24h:	Daphnia magna: 1,1 - 3,6 mg/l.

The product contains substances classified as environmentally hazardous. R-phrases in full text see section 16.

12.2 Persistence and degradability

The product is not easily biodegradable.

12.3 Bioaccumulative potential

Some risk of bioaccumulation (log Po/w=4)

12.4 Mobility in soil

Low potential for adsorption to sewage sludge and soil.

12.5 Results of PBT and vPvB assessment

Not considered to be a substance meeting the criteria in Annex XIII for PBT/vPvB.

12.6 Other adverse effects

No known harmful effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Prevent entry into sewers and waterways.

Dispose of according to local regulations. Proper disposal is incineration.

Liquid waste is classified as hazardous waste with EWC-code (European Waste Catalogue): 08 01 11.

14. TRANSPORT INFORMATION

ADR, RID

14.1 UN-number:	3082
14.2 UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III

IMDG

14.1 UN-number:	3082
14.2 UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
14.5 Environmental hazards:	Yes

14.6 Special precautions for user: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical safety assessment

EG 1907/2006	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
EG 1272/2008	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures
EG 42/2004	European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes.
SFS 1998:808	The Environmental Code, in accordance with the amendment to the Act according to SFS 2018: 1862.
SFS 2018:2003	Waste Ordinance.
AFS 2018:01	Occupational exposure limits and measures against air pollution.
AFS 2018:02	Chemical work environment risks.
MSBFS 2018:05	Regulations on the transport of dangerous goods by road and terrain. (ADR)
TSFS 2015:66	Transport Agency's regulations on transport by sea of packaged dangerous goods. (IMDG)

16. OTHER INFORMATION

Full text of H-phrases referred to under sections 2:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects with skin contact
H411	Toxic to aquatic life with long lasting effects.

This safety data sheet is prepared in accordance with the existing European regulations.

This SDS is based on Eradur AB's current knowledge and experience, and to serve as a guide for safe handling of the product. This SDS should be used along with other product technical information. The user is made aware of the risks that may occur if the product is used for purposes other than its intended purpose.

It is the sole responsibility to take all precautions required in handling the product. The information provided herein is not exhaustive and does not exonerate the user from ensuring that legal obligations exist, and for which he alone is responsible.