



Safety data sheet

1. Substance/preparation and company identification

Trade name:

AralditOP

Application of the substance/ the preparation:

Epoxid Resin

BEIL

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2. Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS09

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36/38: Irritating to eyes and skin.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms GHS07, GHS09

Signal word Warning

Hazard-determining components of labelling:

reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)

Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Contains epoxy constituents. May produce an allergic reaction.	

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards**Results of PBT and vPvB assessment**

PBT: PBT - assessment not available.

vPvB: vPvB - assessment not available.

3. Composition/Information on Ingredients**3.2. Chemical characterization: Mixtures**

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

CAS: 25068-38-6	reaction product: bisphenol A-(epichlorhydrin); epoxy resin	70-90%
NLP: 500-033-5	(number average molecular weight < 700)	
	Xi R36/38; Xi R43; N R51/53	
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	

Additional information For the wording of the listed risk phrases refer to section 16.

4. First-Aid Measures**4.1. Description of first aid measures**

General information Remove contaminated clothing.

After inhalation Supply fresh air and to be sure call for a doctor.

After skin contact Immediately wash with water and soap and rinse thoroughly.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing Drink copious amounts of water and provide fresh air. Call for doctor immediately.

Information for doctor**4.2. Most important symptoms and effects, both acute and delayed**

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.



5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

In certain fire conditions, traces of other toxic gases cannot be excluded.

5.3. Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

6.2. Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

Handling

7.1. Precautions for safe handling Store in cool, dry place in tightly closed receptacles.

Information about protection against explosions and fires: No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

7.3. Specific end use(s) No further relevant information available.

8. Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see item 7.

8.1. Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

8.2. Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

Short term filter device:

Filter P2.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Rubber gloves

Nitrile rubber, NBR

Eye protection: Tightly sealed goggles.

Body protection: Protective work clothing.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Viscous
Colour: Yellowish
Odour: Light
pH-value at 20°C: 7

Change in condition

Melting point/Melting range: undetermined
Boiling point/Boiling range: > 200°C
Flash point: > 200°C
Self igniting: Product is not selfigniting.
Danger of explosion: Product does not present an explosion hazard.
Density at 20°C: 1.12 g/cm³

Solubility in / Miscibility with

Water: Not miscible or difficult to mix

Viscosity:

dynamic at 20°C: 1400 - 1800 mPas

Solvent content:

Organic solvents: 0.0 %
VOC %: 0.00 %

9.2. Other information There are no more data available.

10. Stability and Reactivity

10.1. Reactivity No further relevant informations available

10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Reacts with strong acids and alkali

Reacts with strong oxidizing agents

10.4. Conditions to avoid No further relevant information available.

10.5. Incompatible materials: No further relevant information available.

10.6. Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)



Poisonous gases/vapours

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

25068-38-6 reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)

Oral LD50 >5000 mg/kg (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12. Ecological Information

12.1. Toxicity

Acquatic toxicity: No further relevant information available.

12.2. Persistence and degradability Not easily biodegradable

Behaviour in environmental systems:

12.3. Bioaccumulative potential No further relevant information available.

12.4. Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: Toxic for fish

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

12.5. Results of PBT and vPvB assessment

PBT: PBT - assessment not available.

vPvB: vPvB - assessment not available.

12.6. Other adverse effects No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations

Recommended cleansing agent: Water, if necessary with cleansing agents.

14. Transport Information

14.1. UN-Number

ADR, IMDG, IATA

UN3082

ADN

Void

14.2. UN proper shipping name

ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,



ADN
IMDG, IATA

LIQUID, N.O.S. (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))

Void

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700))

14.3. Transport hazard class(es)

ADR, IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles.

Label

9

ADN/R Class:

Void

14.4. Packing group

ADR, IMDG, IATA

III

14.5. Environmental hazards:

Marine pollutant:

Yes

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

14.6. Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler):

90

EMS Number:

F-A,S-F

14.7. Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Tunnel restriction code

E

UN "Model Regulation":

UN 3082 , ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S., 9, III

15. Regulatory Information

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

National regulations

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

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.

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.



Abbreviations and acronyms:

PBT:	persistent, bioaccumulative, toxic substance (REACH)
vPvB:	very persistent, very bioaccumulative substance (REACH)
REACH:	Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
CLP:	Regulation on classification, labelling and packaging of substances and mixtures
ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent