

MATERIAL SAFETY DATA SHEET**1. CHEMICAL PRODUCTS / IDENTIFICATION OF SUBSTANCE**

PRODUCT NAME: Sealbond 458- Pile Splicing Epoxy
PRODUCT CODE: Sealbond 458-PE

2. COMPOSITION / INFORMATION ON INGREDIENTS

Reaction Product: bisphenol –A-(epichlorhydrin) epoxy resin, curing agent, silica sand (as per order basis from manufacturer)

3. HAZARDS IDENTIFICATION**SPECIFIC HAZARDS**

Hazard description: May cause eye and skin irritation. Prolonged contact may sensitization.

4. FIRST AID MEASURES

- AFTER INHALATION :** Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation
- AFTER SKIN CONTACT :** Wash in soap and water and rinse with water. Take off all contaminated clothing. If skin irritation continues, consult doctor
- ATER EYE CONTACT :** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Never use solvent. If irritation continues, see an ophthalmologist.
- AFTER SWALLOWING :** Give lukewarm water to drink. Do not induce vomiting. Do not make the victim drink milk or fatty fluids. If swallowed, seek immediate advice and show container or label to the doctor.

5. FIRE FIGHTING MEASURES**Suitable extinguishing agents:**

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

Protective equipment:

Because fire may produce thermal decomposition products, wear a self contained breathing apparatus with a full face piece operated in pressure-demand or positive-pressure mode.

6. ACCIDENTAL RELEASE MEASURES

PERSON-RELATED SAFETY PRECAUTIONS

Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS

Discharge in sewer prohibited.

Absorb with inert material (vermiculate, sand) and collect in closed containers.

If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE

INFORMATION FOR SAFE HANDLING:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

PREVENTION OF WORKER EXPOSURE

Handle with care using hand and eye protection.

Comply with the Health and Safety work laws.

STORAGE

Do not keep for prolonged periods of time.

Keep container tightly closed.

Keep away from food, drink and animal feeding stuffs. While still wet.

8. EMPLOYEE PROTECTION

Respiration Protection:

Avoid breathing vapors/mists. Use a niosh-approved respirator as required to prevent over-exposure. In accord with 29 CFR 1910. 134, use either a full-face, atmosphere-supplying respirator for organic vapor. Avoid breathing vapors which may be produced under some conditions such as heating or applications uncured material in large surface areas (e.g. flooring and painting). Avoid breathing aerosols and mists which may be formed by various methods of application.

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

· 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.

· 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.

Protection of hands : Protective gloves

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

Eye protection: Wear any appropriate eye protection to prevent contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Clear

Flash point: > 93°C (> 199°F)

Auto igniting: Product is not self igniting.

Danger of explosion: Product does not present an explosion hazard.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content

Organic solvents: 0.0 %

· Solids content: 100.0 %

VOC : not more than 20 g/L(test result pending – SGS testing center)

10. STABILITY AND REACTIVITY

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known.
- Dangerous products of decomposition: No dangerous decomposition products known

11. TOXICOLOGICAL INFORMATION

- Acute toxicity:
- Primary irritant effect:
 - on the skin: May cause skin irritation.
 - on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

12. ECOLOGICAL INFORMATION**Ecotoxicological effects**

- Remark: Toxic for fish

General notes:

- Water hazard class 1 (Self-assessment): slightly hazardous for water
- Water hazard class 2 (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

13. DISPOSAL CONSIDERATIONS

- **Recommendation:**

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. Local Regulations may differ from area disposal regulations. Dispose of waste material according to local and provincial environmental regulations.

Recommendation: Disposal must be made according to local regulations.

14. TRANSPORT INFORMATION

DOT regulations: Not Regulated

- Hazard class: -
- Packing group: III
- Limited Quantity Exemption: No Limited Quantity exemption applies for this shipping class.

- Land transport ADR/RID (cross-border):
- ADR/RID class: -
- UN-Number:
- Packaging group: III
- Maritime transport IMDG:
- IMDG Class: 9
- UN Number: 3082
- Label 9
- Packaging group: III

- Marine pollutant: No
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(epoxy resin)

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
- Packaging group: III

15. REGULATIONS

Product related hazard information:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols:

X_i Irritant

N Dangerous for the environment

Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

Irritating to eyes and skin.

May cause sensitisation by skin contact.

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

Safety phrases:

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

Do not empty into drains.

Wear suitable gloves and eye/face protection.

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If swallowed, seek medical advice immediately and show this container or label.

If swallowed, rinse mouth with water (only if the person is conscious).

Special labeling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

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

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.