

Safety Data Sheet
CompoSol® Lightweight REP (Part B)

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: CompoSol® Lightweight REP (Part B)

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

Recommended use: Component of epoxy coating

Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet

Supplier: NRI
3875 Fiscal Court Suite #100
Riviera Beach, FL 33404. USA.
1- 561 - 683 - 6992

E-mail address: europe@neptuneresearch.com

1.4. Emergency telephone number

Emergency telephone number: +44 7807125171 (24 hour Emergency Call)
+844 892 0111 GB: Regional Medicines and Poisons Information Centre
131126 AU: National Poisons Information Network (Australia-wide)

Section 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin corrosion/irritation – Category 2

Skin sensitization – Category 1

Eye damage/irritation – Category 2

Hazardous to the aquatic environment-long term (chronic) hazard – Category 2

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms:



Signal word: Warning

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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 statement:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P333+P313 If skin irritation occurs: Get medical advice/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.
 P362 Take off contaminated clothing and wash before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other information:

Results of PBT and vPvB assessment
 PBT: Not applicable
 vPvB: Not applicable

Section 3. Composition/ Information on Ingredients

3.1. Substances: Not Applicable

3.2. Mixtures

| Component | EC # | CAS # | Weight % | EU-GHS Substance Classification | REACH Number |
|--|-----------|------------|----------|--|--------------------------|
| Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) | 500-033-5 | 25068-38-6 | 15 – 50 | Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) | 01-2119456619-26-xxxx |
| Epoxy resin | 611-275-7 | 55492-52-9 | 5 – 20 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) | No information available |
| Oxirane, mono [(C12-14-alkyloxy)methyl] derivs | 271-846-8 | 68609-97-2 | 5 – 10 | Skin Irrit. 2 (H315) Skin Sens. 1 (H317) | 01-2119485289-22-xxxx |

Section 4. First Aid Measures

4.1. Description of first-aid measures

First aid measures for accidental

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General advice: Instantly remove any clothing soiled by the product.

Inhalation: Take affected persons into the open air and position comfortably. Seek medical treatment in case symptoms persist.

Skin contact: Instantly wash with soap and water and rinse thoroughly. If skin irritation continues, consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water, then consult a doctor.

Ingestion: Do not induce vomiting. Seek immediate medical advice.

Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms/effects, acute and delayed: No particular measures are known. Treat according to symptoms.

4.3 Indication of immediate medical attention and special treatment needed: No further relevant information available.

Section 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Unsuitable extinguishing media: Water with a full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters: Wear breathing apparatus. Dispose of fire debris and contaminated fire-fighting water in accordance with local regulations.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Use personal protective equipment (See Section 8) to prevent any contamination of skin, eyes and personal clothing.

Emergency procedures: Remove ignition sources. Provide sufficient ventilation, control dust. Evacuate personnel to safe areas.

6.1.2 For emergency responders: Use appropriate personal protective clothing. Use gloves and safety glasses.

6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.

6.3. Methods and materials for containment and cleaning up

6.3.1 For containment: Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

6.3.2 For cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.3.3 Other Information: Clear spills immediately.

6.4 Reference to other sections: See Section 13 for additional information. Dispose of in accordance with applicable local and federal environmental control regulations. Section 8 for Personal protective equipment.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling: The usual precautionary measures for handling chemicals must be observed. Ensure good ventilation/exhaust at the workplace.

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Hygiene measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash thoroughly after handling.

7.2 Conditions for safe storage including any incompatibilities: Store only in unopened original containers. Provide floor trough without outlet. Store away from foodstuffs. Keep container tightly sealed.

7.3 Specific end use(s)

Exposure scenario: No information available.

Other guidelines: No information available

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits: No relevant quantities of materials with critical values that have to be monitored at the workplace.

Derived no effect level: No information available.

Predicted No Effect Concentration (PNEC): No information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

8.2.2 Personal protective equipment

8.2.2.1 Eye and face protection: Tightly sealed safety glasses. Recommended filter device for short term use is Combination filter A-P2.

8.2.2.2 Skin protection: Wear plastic gloves. Only use chemical-protective gloves with CE-labelling of category III. To minimize the wetness in the glove due to perspiration changing of gloves during a shift is required. Check the permeability prior to each renewed use of the glove. Preventive skin protection by use of skin-protecting agents is recommended. Recommended material of glove is nitrile rubber, fluorocarbon rubber (Viton). Wear protective work clothing.

8.2.2.3 Respiratory protection: Use breathing protection in case of insufficient ventilation.

8.3 Environmental exposure controls: Do not allow material to contaminate ground water system.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|-------------------------|-------------------|
| Physical State: | Liquid |
| Appearance: | Yellowish |
| Odour: | Characteristic |
| Odour threshold: | No data available |

| <u>Property</u> | <u>Values</u> | <u>Remarks-Method</u> |
|---|-------------------|-----------------------|
| pH: | No data available | None known |
| Melting point range: | No data available | None known |
| Boiling point/boiling range: | > 200 °C | None known |
| Flash Point: | >100 °C | None known |
| Evaporation rate: | No data available | None known |
| Flammability (solid, gas): | No data available | None known |
| Upper/lower flammability limits: | No data available | None known |
| Vapour pressure: | No data available | None known |

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| | | |
|--|----------------------------------|------------|
| Vapour density: | No data available | None known |
| Relative density: | 1.12 g/cm ³ | ISO 2811-2 |
| Solubilities: | Not miscible or difficult to mix | None known |
| Partition coefficient (n-octanol/water): | No data available | None known |
| Auto-ignition temperature: | Product is not self-igniting | None known |
| Decomposition temperature: | No data available | None known |
| Viscosity, dynamic at 25 °C: | 700 mPas | ISO 3219 |
| Explosive properties: | No data available | None known |

9.2 Other information

No further relevant information available.

Section 10. Stability and Reactivity

10.1 Reactivity: Stable

10.2 Chemical stability: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong oxidizing agents, alkali, amines and acids

10.4 Conditions to avoid: No further relevant information available

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: None, if stored and handled correctly. In the event of fire will form toxic gases and vapours.

Section 11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity:

| Component | Oral LD50 | Dermal LD50 | Inhaled LC50 |
|--|---|--|--|
| Reaction product bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) (25068-38-6) | 20,000 mg/kg (mouse) 19,800 mg/kg (rabbit) 11,400 mg/kg (rat) | 1,270 mg/kg (mouse) >2,000 mg/kg (rabbit) >1,200 mg/kg (rat) DNEL worker: 8.3 mg/kg/bw/d | DNEL worker: 12.3 mg/m ³ |
| Epoxy resin (55492-52-9) | >5,000 mg/kg (rat) | N/A | N/A |
| Oxirane, mono[(C12-14-alkyloxy)methyl] derivs (68609-97-2) | >5,000 mg/kg (rat) | >4,500 mg/kg (rabbit) | N/A |

Primary route of entry:

Skin: Irritant to skin and mucous membranes

Eye: Irritant effect

Chronic Effects:

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Sensitisation: May cause sensitisation by skin contact

Mutagenicity: No data available.

Carcinogenicity: No data available

Reproductive Toxicity: No data available

Specific Target Organ Toxicity - single exposure (STOT-se): No data available

Specific Target Organ Toxicity - repeated exposure (STOT-re): No data available

Delayed and immediate effects and also chronic effects from short and long-term exposure:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach

Additional toxicological information:

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

- Irritant.

Section 12. Ecological Information

12.1 Toxicity:

| Component | Aquatic Toxicity |
|---|--|
| Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) (25068-38-6) | Algae: 220 mg/l (Alge Scenedesmus sp.) (EC50(96h)) Bacteria: 3.6 mg/l (Leuciscus idus) (EC50(96h)) Daphnia: 2.8 mg/l (Daphnia magna) (EC50(48h)) Fish: 1.3 mg/l (Fisch (fish)) (LC50(96h)) PNEC: 0.003 mg/l (Freshwater) 0.0003 mg/l (Seawater) |

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential: No information available.

12.4 Mobility in soil: No information available.

12.5 Results of PBT and vPvB Assessment: Not applicable.

12.6 Other adverse effects: Toxic for fish.

12.7 Additional information:

Poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms.

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

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

Danger to drinking water if even small quantities leak into soil

Section 13. Disposal Considerations

13.1 Waste treatment methods:

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13.1.1 Product / Packaging disposal: For disposal, local regulations issued by the authorities must be observed. Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste. Dispose of uncleaned package according to local regulations.

13.1.2 Waste treatment-relevant information:

| European waste catalogue | |
|--------------------------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 02 00 | Wastes from MFSU of other coatings (including ceramic materials) |
| 08 02 99 | Wastes not otherwise specified |

13.1.3 Sewage disposal-relevant information: This product should not be allowed to enter drains, water courses or the soil.

13.1.4 Other disposal recommendations: Not relevant information.

Section 14. Transport Information

ADR/IMDG/ IATA

14.1 UN number:

ADR, IMDG, IATA: UN3082

14.2 UN Proper Shipping Name:

| | |
|-------------|---|
| ADR | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin), MARINE POLLUTANT |
| IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) |

14.3 Transport hazard class: Not applicable

| | |
|-------------|--|
| ADR | Class: 9 (M6) Miscellaneous dangerous substances and articles. Label: 9 |
| IMDG | Class: 9 Miscellaneous dangerous substances and articles. Label: 9 |
| IATA | Class: 9 Miscellaneous dangerous substances and articles. Label: 9 |

14.4 Packing group:

ADR, IMDG, IATA: III

14.5 Environmental hazard: Product contains environmentally hazardous substances: epoxy resin.

Marine pollutant: Yes

14.6 Special precaution:

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Warning: Miscellaneous dangerous substances and articles

Kemler Number: 90

EMS Number: F-A-S-F

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

Transport Additional Information (ADR):

Excepted quantities (EQ): E1

Limited quantities (LQ): 5L

Transport category: 3

Tunnel restriction code: E

UN "Model Regulation": UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin) 9, III

Section 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

Section 16. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

These data are based on present knowledge. However, they 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

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

(R1) Revision date: 06.26.18