

Safety Data Sheet
Composol Rep Tropical Base

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

1.1. Product identifier

Product name: Composol Rep Tropical Base

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 2A

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/vapor/spray.
 P273 Avoid release to the environment
 P280 Wear protective gloves.
 P332+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.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other information: N/A

Section 3. Composition/ Information on Ingredients

3.1. Substances: Not Applicable

3.2. Mixtures

Component	EC: EINECS #	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	500-033-5	25068-38-6	50 – 100	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	01-2119456619-26-xxxx
Epoxy resin	611-275-7	55492-52-9	25 – 50	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
Oxirane,mono[(C12-14-alkoxy)methyl] derivs	271-846-8	68609-97-2	10 – 25	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. Remove cloth if soaked. If skin irritation continues, consult a doctor.

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

Ingestion: Rinse mouth with clean water. If swallowed, drink plenty of milk. 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: Do not use 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: Self-contained breathing apparatus should be worn. 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.

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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/exhaustion at the workplace.

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. Keep container tightly sealed. Store in a dry place in original containers in a dry, well ventilated area.

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

Derived no effect level (DNEL):

- Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (CAS: 25068-38-6)
 - Dermal DNEL - worker 8.3 mg/kg / bw/d (-)
 - Inhalative DNEL - worker 12.3 mg/m³ (-)

Predicted No Effect Concentration (PNEC):

- Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (CAS: 25068-38-6)
 - 0.003 mg/l (Frischwasser (freshwater))
 - 0.0003 mg/l (Meerwasser (seawater))

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 nitrile rubber or fluorocarbon rubber gloves. 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:	Paste
Appearance:	Grey
Odour:	Characteristic

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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
Freezing point:	< 0 °C	
Flash Point:	>100 °C	None known
Evaporation rate:	No data available	None known
Flammability (solid, gas):	Non self-igniting	None known
Upper/lower flammability limits:	No data available	None known
Vapour pressure:	No data available	None known
Vapour density:	No data available	None known
Relative density:	1.60 g/cm ³	ISO 2811-2
Specific Gravity:	1.13 at 20 °C	
Solubilities:	No data available	None known
Solubility in water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water):	No data available	None known
Auto-ignition temperature:	No data available	None known
Decomposition temperature:	No data available	None known
Viscosity, dynamic at 25 °C:	No data available	None known
Explosive properties:	Not explosive	None known

9.2 Other information

No further relevant information available.

Section 10. Stability and Reactivity

10.1 Reactivity: Stable under normal conditions of use.

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: toxic gases and vapours.

Section 11. Toxicological Information

11.1 Information on toxicological effects:

Acute Toxicity:

Component	Oral LD50	Dermal LD50
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (25068-38-6)	20000 mg/kg (mouse) 19800 mg/kg (rabbit) 11400 mg/kg (rat)	1270 mg/kg (mouse) >2000 mg/kg (rabbit) >1200 mg/kg (rat)

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Epoxy resin (55492-52-9)	>5000 mg/kg (rat)	N/A
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs	>5000 mg/kg (rat)	>4500 mg/kg (rabbit)

Primary route of entry:

Skin: Irritant to skin and mucous membranes.

Eye: Irritant effect.

Sensitization: Sensitization possible by skin contact.

Chronic Effects:

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: No data available

Section 12. Ecological Information

12.1 Toxicity:

Aquatic toxicity:

Component	Species	Results
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (25068-38-6)	Algae toxicity	220 mg/l (Alge Scenedesmus sp.) (EC50(96h))
	Bacteria toxicity	3.6 mg/l (Leuciscus idus) (EC50(96h))
	Daphnia toxicity	3.6 mg/l (Leuciscus idus) (EC50(96h))
	Fish toxicity	1.3 mg/l (Fisch (fish)) (LC50(96h))
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs	Algae toxicity	844 mg/l (-) (EC50(72h))
	Bacteria toxicity	>100 mg/l (Belebtschlamm (activated sludge)) (EC50)
	Fish toxicity	1800 mg/l (Ochorhyncus mykiss (Regenbogenforelle)) (LC50(96h))

12.2 Persistence and degradability: The product is slightly biodegradable.

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. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

12.7 Additional information: Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system.

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Section 13. Disposal Considerations

13.1 Waste treatment methods:

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 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 Proper Shipping Name:

ADR, IMDG, IATA: Environmentally hazardous Liquid, n.o.s. (epoxy resin)

14.3 Transport hazard class:

ADR, IMDG, IATA: Class 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:

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:

ADR:

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- Excepted quantities (EQ): E1
- Limited quantities (LQ) 5L
- Transport category 3
- Tunnel restriction code E

Section 15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

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

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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.

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