

Safety Data Sheet
Composol Rep Tropical Activator

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

1.1. Product identifier

Product name: Composol Rep Tropical Activator

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 1A

Skin sensitization – Category 1

Eye Damage – Category 1

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:



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Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage
 H317 May cause an allergic skin reaction
 H318 Causes serious eye damage.
 H411 Toxic to Harmful to aquatic life with long lasting effects.

Precautionary statement:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment
 P280 Wear protective gloves.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304+P3410: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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.
 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
TrienteneTOFA-Dimer FA-TETA PAA	500-191-5	68082-29-1	50 – 100	Acute Tox. 4 (H312) Skin Corr. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	01-2119972320-44-xxxx
Benzyl alcohol	202-859-9	100-51-6	10 – 25	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)	01-2119492630-38-xxxx
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	234-148-4	10563-29-8	2.5 – 10	Skin Corr. 1A (H314) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Sens. 1 (H317)	No data available

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Section 4. First Aid Measures

4.1. Description of first-aid measures

First aid measures for accidental

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: Alcohol resistant foam, carbon dioxide, powder.

Unsuitable extinguishing media: Do not use water jet. Spray exposed containers with water mist to keep cool.

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: Put on 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.

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Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling: Avoid contact with eyes, skin and clothing. Follow good hygiene practices and always wash hands after use, before drinking, eating, etc. Keep out of reach of children.

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. Keep container tightly sealed. Store in a dry place in original containers in a dry, well ventilated area between 10 °C and 35 °C.

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:

- TOFA-DimerFA-TETA PAA (CAS: 68082-29-1)
 - Dermal DNEL - worker 1.1 mg/kg / bw/d (-)
 - Inhalative DNEL - worker 3.9 mg/m³ (-)
- Benzyl alcohol (CAS: 100-51-6)
 - Dermal DNEL - worker 9.5 mg/kg / bw/d (-)
 - Inhalative DNEL - worker 90 mg/m³ (-)

Predicted No Effect Concentration (PNEC):

- TOFA-DimerFA-TETA PAA (CAS: 68082-29-1)
 - 0.00434 mg/l (freshwater)
 - 0.000434 mg/l (seawater)
- Benzyl alcohol (CAS: 100-51-6)
 - 1 mg/l (freshwater)
 - 0.1 mg/l (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.

8.2.2.2 Skin protection: Wear nitrile rubber gloves. Wear protective work clothing.

8.2.2.3 Respiratory protection: In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Combination filter A-P2 is the recommended filter.

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

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Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State:	Paste
Appearance:	Yellowish
Odour:	Amine like
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):	Product is not selfigniting	None known
Upper/lower flammability limits:	No data available	None known
Vapour pressure:	0.1 hPa	None known
Vapour density:	1.01 g/cm ³	ISO 2811-2
Relative density:	No data available	None known
Specific Gravity:	No data available	None known
Solubilities:	No data available	None known
Solubility in water:	Not miscible or difficult to mix	None known
Partition coefficient (n-octanol/water):	No data available	None known
Auto-ignition temperature:	335 °C	None known
Decomposition temperature:	No data available	None known
Viscosity, dynamic at 25 °C:	No data available	None known
Explosive properties:	Product is 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: No dangerous reactions known

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: Strong oxidizing agents

10.6 Hazardous decomposition products: In the event of fire: toxic gases and vapours.

Section 11. Toxicological Information

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11.1 Information on toxicological effects: Numerical measures of toxicity:

Component	Oral LD50	Dermal LD50
TOFA-DimerFA-TETA PAA	>2000 mg/kg (rat) 19800 mg/kg (rabbit) 11400 mg/kg (rat)	>2000 (rat) >2000 mg/kg (rabbit) >1200 mg/kg (rat)
Benzyl alcohol	1040 mg/kg (mouse) 1620 mg/kg (rat)	2000 mg/kg (rabbit)
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	1670 mg/kg (rat)	1310 mg/kg (rabbit)

Primary route of entry:

Skin: Caustic effect on skin and mucous membranes

Eye: Strong caustic 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
TOFA-DimerFA-TETA PAA	Algae toxicity	1.25 mg/l (Alge Scenedesmus sp.) (LC50(72))
	Fish toxicity	7.07 mg/l (Fisch (fish)) (EC50)
Benzyl alcohol	Algae toxicity	79 mg/l (Scenedesmus quadricauda) (EC50(3h)) 640 mg/l (Alge Scenedesmus sp.) (EC50(96h))
	Bacteria toxicity	>658 mg/l (Pseudomonas putida) (EC50(16h)) 71.42 mg/l (Photobacterium phosphoreum) (EC50(0,5h))
		400 mg/l (Pseudomonas putida) (EC50(0,5h))

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	Daphnia toxicity Fish toxicity	400 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h)) 460 mg/l (Pimephales promelas) (LC50(96h)) 645 mg/l (Goldorfe (orfe)) (LC50(96h)) 10 mg/l (Lepomis macrochirus) (LC50 (96h))
N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	Algae toxicity Bacteria toxicity Daphnia toxicity Fish toxicity	21 mg/l (Alg) (ErC50(72h)) >1000 mg/ l (Belebts chlamm (ac t ivated sludge)) (EC20(0,5h)) 181 mg/l (Pseudomonas putida) (EC50(16h)) 9.2 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h)) 220 mg/l (Leuciscus idus) (LC50(96h))

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: No information available.

12.7 Additional information: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Must not reach sewage water or drainage ditch undiluted or unneutralised. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

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.

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Section 14. Transport Information

ADR/IMDG/ IATA

14.1 UN Number:

ADR, IMDG, IATA: UN2735

14.2 Proper Shipping Name:

ADR: 2735 amines, liquid, corrosive, n.o.s. (n'-(3-aminopropyl) -n,n-dimethylpropane-1,3-diamine), environmentally hazardous.

IMDG: amines, liquid, corrosive, n.o.s. (n'-(3-aminopropyl)-n,n-dimethylpropane-1,3-diamine, of a - d i m e r f a - t e t a p a a) , m a r i n e p o l l u t a n t .

IATA: amines, liquid, corrosive, n.o.s. (n'-(3-aminopropyl)-n,n-dimethylpropane-1,3-diamine).

14.3 Transport hazard class:

ADR, IMDG, IATA: Class 8

14.4 Packing group:

ADR, IMDG, IATA: III

14.5 Environmental hazard:

Product contains environmentally hazardous substances: TOFA-DimerFA-TETA PAA

Marine Pollutant: Yes

14.6 Special precaution:

Kemler Number: 80

EmS Number: F-A S-B

Segregation groups: Alkalis

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

Excepted quantities (EQ):

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category: 3

Tunnel restriction code: E

IMDG

Excepted quantities (EQ): E1

Limited quantities (LQ) 5L

Excepted quantities (EQ)

Code: E1

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Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Section 15. Regulatory Information

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

Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- Water hazard class: Water hazard class 1 (Self-assessment): slightly 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

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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