

SAFETY DATA SHEET

EPIKOTE 816

MAAC215

1. Identification of the substance/preparation and of the company/undertaking

Product name : EPIKOTE 816 **Supplier** : Brenntag UK and Ireland
Albion House
Rawdon Park
Green Lane
Yeadon
Leeds
LS19 7XX

EMERGENCY ONLY TELEPHONE NUMBER : (N.C.E.C. CULHAM) 01865 407333 **Telephone No.** : (0113) 3879200

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2. Composition/information on ingredients

Substance/Preparation : Preparation					
Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) Bisphenol A-epichlorohydrin resin, mw<700	25068-38-6	80-90		Xi, N	R36/38, R43, R51/53
2) 2,3-EPOXYPROPYL NEODECANOATE	26761-45-5	10-20	247-979-2	Xi, N	R43, R51/53

* Occupational Exposure Limit(s), if available, are listed in Section 8

CAS No. Mixture.

EINECS Number Mixture.

3. Hazards identification

Human health hazards : Irritating to eyes and skin.
May cause sensitization by skin contact.

Environmental hazards : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First-aid measures

First-Aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin contact : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.

Eye Contact : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.

Effects and symptoms

Skin contact : Hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye Contact : Hazardous in case of eye contact (irritant).

5. Fire-fighting measures

Extinguishing Media

Suitable : SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Hazardous thermal (de)composition products : Polymerises exothermically with amies, mercaptans and lewis acids at ambient temperature and above.
Polymerises in contact with caustic soda.
Reacts exothermically with bases (eg caustic soda), ammonia, primary and secondary amines, alcohols and acids.

Special fire-fighting procedures : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

Personal Precautions	: Splash goggles. Protective overalls/suit. Boots. Gloves. Select appropriate protective clothing for the size of the spillage.
Environmental precautions and cleanup methods	: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

7. Handling and storage

Handling	: Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of the product. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. If ingested, seek medical advice immediately and show the container or the label.
Storage	: Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging materials	
Recommended use	: Use original container.

8. Exposure controls/personal protection

Engineering measures	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.
Hygiene measures	: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Workplace Exposure Limits	: Not available.
Personal protective equipment	
Skin and body	: Overalls or Lab coat.
Hands	: Butyl rubber gloves. Nitrile gloves. Neoprene gloves. PVC gloves.
Eyes	: Splash goggles.

9. Physical and chemical properties

Physical state	: Liquid.
Colour	: Yellow. (Light.)
Odour	: Slight.
Boiling point	: >200°C (392°F)
Density	: 1.13 g/cm ³ at 25°C (77°F)
Solubility	: Negligible soluble in water.
Octanol/water partition coefficient	: The product is more soluble in oil; log(oil/water) = >3
pH	: Not available.
Flash point	: CLOSED CUP: 110°C (230°F).
Viscosity	: Dynamic: 1.5 to 2.1 Pas at 25 °C.

10. Stability and reactivity

Stability	: The product is stable.
Conditions to Avoid	: Caustic soda can induce vigorous polymerisation at temperatures around 200 °C.
Materials to avoid	: Avoid strong oxidizing agents and caustic soda.
Hazardous decomposition products	: Polymerises exothermically with amies, mercaptans and lewis acids at ambient temperature and above. Polymerises in contact with caustic soda. Reacts exothermically with bases (eg caustic soda), ammonia, primary and secondary amines, alcohols and acids.

11. Toxicological information

Local effects	
Skin irritation	: Hazardous in case of skin contact (irritant).
Eye irritation	: Hazardous in case of eye contact (irritant).
Sensitization	: Hazardous in case of skin contact (sensitizer).
Acute toxicity	: Acute oral toxicity (LD50): 11400 mg/kg [Rat]. (Bisphenol A-epichlorohydrin resin, mw<700). Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit]. (Bisphenol A-epichlorohydrin resin, mw<700).

12. Ecological information


Persistence/degradability	: Biodegradability: No evidence of biodegradability.
Bioaccumulative potential	: This product shows a high bioaccumulation potential.
Ecotoxicity	: - Bisphenol A-epichlorohydrin resin, mw<700: Ecotoxicity in water: (LC50): 1.5 to 7.7 mg/l, 96 hours [Fish (Rainbow trout)]. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

Methods of disposal ; Waste of residues ; Contaminated packaging	: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Classification	: Not applicable.

14. Transport information

International transport regulations



UN :	UN number	3082
UN :	Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Liquid epoxy resin 2,3-EPOXYPROPYL NEODECANOATE)
UN :	Class	9
UN :	Packing group	III
UN :	Label	

ADR/RID :	Class	9
ADR/RID :	Hazard identification number	90
IMDG :	Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Liquid epoxy resin 2,3-EPOXYPROPYL NEODECANOATE)
IMDG :	Packing group	III

IATA :	Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Liquid epoxy resin 2,3-EPOXYPROPYL NEODECANOATE)
IATA :	Packing group	III
IATA :	Additional Information	-

15. Regulatory information

EU Regulations

Hazard symbol(s)	:  
Classification	: Irritant, Dangerous for the environment
Risk Phrases	: R36/38- Irritating to eyes and skin. R43- May cause sensitization by skin contact. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases	: S24- Avoid contact with skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of soap and water. S37/39- Wear suitable gloves and eye/face protection. S57- Use appropriate containment to avoid environmental contamination. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
Contains	: - Bisphenol A-epichlorohydrin resin, mw<700 - 2,3-EPOXYPROPYL NEODECANOATE
Product Use	: Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use. - Consumer applications.

16. Other information

HISTORY

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version 1

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