

Printing date 09/17/2007

Reviewed on 08/10/2007

1 Identification of substance:

- Product details:
- Trade name: EPIKOTE™ Resin MGS LR 285
- Article number: 16S-00006/3
- · Application of the substance / the preparation Laminating resin systems
- Manufacturer/Supplier:

Hexion Specialty Chemicals B.V.

Postbus 606

3190 AN Hoogvliet Rt.

Netherlands

Tel.: +31 65 25 11 07 9

• Information department:

see: chapter 16 (contact)
E-Mail: eckhard.ruehle@hexion.com

• Emergency information:

CALL CHEMTREC®:

NATIONAL : 800-424-9300 INTERNATIONAL: 703-527-3887

2 Composition/Data on components:

- · Chemical characterization
- Description: Epoxy resin

• Dangerous components:			
	25068-38-6 Bisphenol A-epichlorohydrin resin, mw ≤ 700	25-50%	
	25038-04-4 Propanetriol, glycidyl ethers	25-50%	

3 Hazards identification

· Information pertaining to particular dangers for man and environment

Irritating to eyes and skin.

May cause sensitization by skin contact.

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

Contains epoxy constituents. See information supplied by the manufacturer.

- Classification system
- NFPA ratings (scale 0 4)

Health: 1
Fire: 1
Reactivity: 0

• HMIS ratings (scale 0 - 4)

Health: 1
Fire: 1
Reactivity: 0

4 First aid measures

- General information Immediately remove any clothing soiled by the product.
- 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

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

• After eye contact

Rinse opened eye for several minutes under running water. Seek immediate medical advice.

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· After swallowing

Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

5 Fire fighting measures

· Suitable extinguishing agents

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

- For safety reasons unsuitable extinguishing agents Water with full jet.
- Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

In certain fire conditions, traces of other toxic gases cannot be excluded.

• Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

• Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

7 Handling and storage

- Handling
- · Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

No special measures required.

- Storage
- Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

Additional information about design of technical systems:

No further data; see item 7.

- Personal protective equipment
- · General protective and hygienic measures

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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- Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands: Plastic gloves
- Material of gloves

Butyl rubber, BR Nitrile rubber, NBR

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses.
- Body protection: Protective work clothing.

9 Physical and chemical properties:

• General Information

Form: fluid Color: Yellowish

Odor: Weak, characteristic

• Change in condition

Boiling point/Boiling range: Not to distillate, decomposition.

• Flash point: > 100°C (> 212°F) (ISO 2719)
• Ignition temperature: > 300°C (> 572°F) (DIN 51794)
• Density at 20°C (68°F): 1.10 - 1.18 g/cm3 (DIN 53217)

• Solubility in / Miscibility with

Water: Not miscible or difficult to mix

Viscosity:

dynamic at 25°C (77°F): 600 - 900 mPa*s (ISO 9371)

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

• Dangerous reactions

May produce violent reactions with bases and numerous organic substances including alcohols and amines Exothermic polymerization

• Dangerous products of decomposition: Irritant gases/vapors

11 Toxicological information

• Acute toxicity:

• LD/LC50 values that are relevant for classification:				
25068-38-6 Bisphenol A-epichlorohydrin resin, mw ≤ 700				
Oral	LD50	11400 mg/kg (rat)		
Dermal	LD50	> 2000 mg/kg (rabbit)		
25038-04-4 Propanetriol, glycidyl ethers				
	1	5000 mg/kg (rat)		
Dermal	LD50	> 2000 mg/kg (rabbit)		

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.

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12 Ecological information:

- Ecotoxical effects:
- · Acquatic toxicity:

Assessment

LC 50 (96h) 1.5 - 7.7 mg/l EC 50 (24h) 1.1 - 3.6 mg/l Rainbow trout Daphnia magna 220 mg/l EC 50 (96 h)

Green algae (bisphenol-A-epichlorohydrin resin MG ≤ 700)

General notes:

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

13 Disposal considerations

- Product:
- Recommendation

Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

• DOT regulations:

• Hazard class:

• Identification number: UN3082 • Packing group: III

• Proper shipping name (technical name): ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (EPOXIDE DERIVATIVES)

• Label

• Land transport ADR/RID (cross-border)

• ADR/RID class: 9 Miscellaneous dangerous substances

and articles

· Packaging group: TTT

3082 ENVIRONMENTALLY HAZARDOUS • Description of goods:

SUBSTANCE, LIQUID, N.O.S. (EPOXIDE

DERIVATIVES)

• Maritime transport IMDG:

• IMDG Class: • UN Number: 3082 Label 9 + MP· Packaging group: III

• EMS Number: F-A,S-F

• Propper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)

• Air transport ICAO-TI and IATA-DGR:

• ICAO/IATA Class: • UN/ID Number: 3082 • Label 9 · Packaging group:

• Propper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)

15 Regulations

• SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

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• SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act)

All ingredients are listed.

• Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

Cancerogenity categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

• IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

• NTP (National Toxicology Program)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Markings according to EU guidelines:

· Code letter and hazard designation of product:

Irritant

Dangerous for the environment

· Hazard-determining components of labelling:

Bisphenol A-epichlorohydrin resin, mw \leq 700

Risk phrases:

Irritating to eyes and skin.

May cause sensitization by skin contact.

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

• Special labeling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

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.

- Department issuing MSDS: Product Safety Department
- Contact: Research and Development

• * Data compared to the previous version altered.

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USA