



SAFETY DATA SHEET FLAME RETARDANT EPOXY RESIN 2002A

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME FLAME RETARDANT EPOXY RESIN 2002A
PRODUCT NO. ER2002A
EER2002K5K
EER2002RP250G
EER2002RP250GE
EER2002RP500G
EER2002RP500GF
ZE
APPLICATION Resin
SUPPLIER ELECTROLUBE. A division of
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2 HAZARDS IDENTIFICATION

Irritating to eyes and skin.

May cause sensitisation by skin contact.

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

CLASSIFICATION (1999/45) Xi;R36/38. R43. R52/53.

ENVIRONMENT

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Use appropriate containment to avoid environmental contamination. Avoid release to the environment. Refer to special instructions/safety data sheets. Dispose of waste and residues in accordance with local authority requirements.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
EPOXY RESIN (Number average MW <= 700)	500-033-5	25068-38-6	10-30%	R43 Xi;R36/38 N;R51/53
Neodecanoic acid glycidyl ester	247-979-2	26761-45-5	1-5%	N;R51/53. R43.
Formaldehyde, polymer with 1,3 dimethylbenzene		26139-75-3	1-5%	Xi;R36/38,R37.

The Full Text for all R-Phrases is Displayed in Section 16

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat symptomatically

FLAME RETARDANT EPOXY RESIN 2002A

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

SKIN CONTACT

Rinse the skin immediately with lots of water. Get medical attention if any discomfort continues.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Foam. Alcohol resistant foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Use water to keep fire exposed containers cool and disperse vapours.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Wear necessary protective equipment. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous Liquid
COLOUR	Black
ODOUR	Characteristic

FLAME RETARDANT EPOXY RESIN 2002A

SOLUBILITY	Insoluble in water
RELATIVE DENSITY	1.8 @ 20 °C (68 F)
VISCOSITY	7000,000 mPas 20°C (68 F)
FLASH POINT (°C)	>100 (212 F) CC (Closed cup).

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

11 TOXICOLOGICAL INFORMATION

INHALATION

No specific health warnings noted.

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

Irritating to skin. May cause allergic contact eczema. May cause sensitisation by skin contact.

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

EYES, NOSE AND MOUTH. Repeated exposure may cause chronic eye irritation. SKIN. Mild dermatitis, allergic skin rash. Defatting, drying and cracking of skin.

ROUTE OF ENTRY

Ingestion. Skin and/or eye contact.

Name	EPOXY RESIN (Number average MW <= 700)
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>20000 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

Name	EPOXY RESIN (Number average MW <= 700)
LC 50, 96 Hrs, Fish mg/l	3.1
EC 50, 48 Hrs, Daphnia, mg/l	1.4-1.7
IC 50, 72 Hrs, Algae, mg/l	220

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

ROAD TRANSPORT NOTES

Not Classified

RAIL TRANSPORT NOTES

Not classified.

SEA TRANSPORT NOTES

Not classified.

AIR TRANSPORT NOTES

Not classified.

FLAME RETARDANT EPOXY RESIN 2002A

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT
ADR CLASS

No.
Not classified for transportation.

15 REGULATORY INFORMATION

LABELLING



Irritant

CONTAINS

EPOXY RESIN (Number average MW <= 700)
Neodecanoic acid glycidyl ester

RISK PHRASES

R43 May cause sensitisation by skin contact.
R36/38 Irritating to eyes and skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S24/25 Avoid contact with skin and eyes.
P5 Contains epoxy constituents. See information supplied by the manufacturer.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

ENVIRONMENTAL LISTING

Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980. Rivers (Prevention of Pollution) Act 1961.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC.
Dangerous Preparations Directive 1999/45/EC.
System of specific information relating to Dangerous Preparations. 2001/58/EC.
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Pawel Zmarzly

REVISION DATE NOVEMBER 2010

REV. NO./REPL. SDS 4
GENERATED

SDS NO. 10864

FLAME RETARDANT EPOXY RESIN 2002A

RISK PHRASES IN FULL

- | | |
|--------|---|
| R36/38 | Irritating to eyes and skin. |
| R37 | Irritating to respiratory system. |
| R43 | May cause sensitisation by skin contact. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.