Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Resutop LV Safety Data Sheet

Safety Data Sheet

Product: **Resutop LV**

Supplier:
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RESIN SURFACES LIMITED

SAFETY DATA SHEET, RESUTOP L.V.

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

NAME OF PRODUCT: **RESUTOP L.V**. Superior chemical-resistant high-build 2-pack epoxy resin floor finish.

MANUFACTURERS: Resin Surfaces Ltd, Titan House, Lowick Close, Newby Road Industrial Estate, Hazel Grove, Cheshire, SK7 5ED, England.

EMERGENCY TELEPHONE: 0161-483-1232.

2: COMPOSITION/INFORMATION ON INGREDIENTS:

A 2-pack system comprising base and hardener which are supplied in separate containers to be mixed together at the site of application.

	% by weight	CAS No.	Hazard Symbols	R-phrases
Composition of base:				
Epoxy resin	25-50%	25068-38-6	Xi	R36/38,43,51,53
Epoxy resin	15-25%	28064-14-4	Xi	R36/38,43
Non-toxic pigments & additives	20-40%			
Composition of hardener:				
Benzyl alcohol	>40%	100-51-6	Xn	R 20/22
Phenols	<5%	80-05-7	Xi	R36/37/38 43
Methylene dicyclohexylamine	<10 %	1761-71-3	CN	R22,35,37,43,51,53
Benzene-1,3-dimethaneamine	<20 %	1477-55-0	C	R20/22,35,43,52/53

3: HAZARDS IDENTIFICATION:

Base:
Irritating to eyes and skin.
Dangerous to the environment
May cause sensitisation by skin contact.
Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

Hardener:
Harmful by inhalation and if swallowed.
May cause sensitisation by skin contact.
Acute exposure to vapour may cause eye irritation and lung damage
Product can be absorbed through the skin and may cause nausea headaches and general discomfort.

4: FIRST AID MEASURES:

Eye contact: Hold eyelids apart and rinse immediately with water, continuing for at least 15 minutes. Seek medical attention immediately.

Skin contact: Wipe off mechanically and wash with plenty of soap and water, continuing for at least 15 minutes. Remove contaminated clothing. Cover the affected area with a sterile dressing but do not apply greases or ointments. Seek medical attention.

Inhalation: Remove the affected person to fresh air. If breathing has stopped or is laboured, give artificial respiration (eg mouth-to-mouth) and oxygen if available. Seek medical attention.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately.

: FIRE FIGHTING MEASURES:

Special hazards: If involved in a fire, may generate noxious or toxic vapours.

Protective equipment: Fire fighters wear self contained breathing apparatus.
Extinguishing agents: Foam, dry powder, CO2 or waterspray.

6: ACCIDENTAL RELEASE MEASURES:

Personal precautions: Wear full protective clothing when dealing with a spillage.
Environmental precautions: Prevent from entering sewer system, surface water, or soil.
Methods for cleaning up: Absorb with earth, sand or other absorbent materials.
Disposal: See section 13.

7: HANDLING AND STORAGE:

Handling: Wear goggles or a face shield, impervious gloves and protective clothing. No smoking when handling.
Storage: Store in a cool, well ventilated place away from foodstuffs. Keep containers sealed until mixing.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION:

During application: Wear goggles or a face shield, impervious gloves and protective clothing. Apply in a well ventilated area.

9: PHYSICAL AND CHEMICAL PROPERTIES:

Base: Physical state: pigment dispersion in liquid resin.
Colour: varies according to shade of finish required.
Odour: weak odour.
Vapour pressure: <0.01 kPa at 20 °C.
Boiling point: >150 °C.
Flash point >100 °C.
Density: about 1.4 g/cm3 at 20 °C.
Solubility: immiscible with water.
Viscosity <1 Pa.s at 25 °C.

Hardener: Physical state: free-flowing liquid.
Colour: amber.
Odour: ammoniacal, irritating.
Vapour pressure: about 1.8 kPa at 50 °C.
Boiling point >200 °C.
Flash point 93 °C.
Density: about 1.05 g/cm3 at 20 °C.
Solubility immiscible with water.
Viscosity <1 Pa.s at 25 °C.

10: STABILITY AND REACTIVITY:

Base: May react exothermally with amines and mercaptans, also with acids.
In case of a fire, carbon monoxide carbon dioxide and other harmful gases may be formed.

Hardener: Reacts exothermally with acids. Liberates ammonia when heated. In case of a fire, toxic fumes of nitrogen oxides, amines and carbon monoxide may be formed. Nitrogen oxide can react with water vapours to form corrosive nitric acid.

11: TOXICOLOGICAL INFORMATION:

Base: LD50 oral, rat: >5000 mg/kg.
Epoxy resins such as contained in this product have been shown to cause irritation in humans on skin and eyes. Sensitisation by skin contact may also occur.

Hardener: LD50 oral, rat: >620 mg/kg.
Repeated and/or prolonged exposure may result in adverse eye effects such as conjunctivitis or corneal damage. The hardener is a moderate irritant to skin and may cause sensitisation.

12: ECOLOGICAL INFORMATION:

Environmental precautions: Prevent from entering sewer system, surface water, or soil.
Epoxy resins such as contained in this product have been shown to be toxic to fish and are not readily biodegradable.

13: DISPOSAL CONSIDERATIONS:

Waste — Care should be taken to ensure that all containers are properly and thoroughly cleaned prior to disposal to minimize risk of environmental pollution. Check with local / national waste disposal regulations and Local authorities with regard to acceptable routes for disposal.
Do not reuse containers

14: TRANSPORT INFORMATION:

Base: Irritant, contains epoxy constituents, see information supplied by the manufacturer. N Dangerous to the environment.
ADR: Class 9.
IMO, IATA: Non classifiable.
UN 3082 environmentally hazardous liquid n.o.s.

Hardener: ADR/RID:Amine Liquid Corrosive (Benzene-1,3-dimethaneamine/4,4'-methylene bis-cyclohexanamine /cycloaliphatic amine)UN 2735 , 8, PG 111ADR HAZ 80
IMO: Not classified
ICAO/IATA: Amine Liquid Corrosive (Benzene-1,3-dimethaneamine/4,4'-methylene bis-cyclohexanamine (MXDA) /cycloaliphatic amine) //8// UN 2735 III

15: REGULATORY INFORMATION:

Base: Hazard labels: Xi Irritant, contains epoxy constituents, see information supplied by the manufacturer. N Dangerous to the environment.
R-phrases: R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases: 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.
S36 Wear suitable protective clothing.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Hardener: Hazard labels: C Corrosive.
R-phrases: R20/22 Harmful by inhalation and if swallowed.
R34Causes burns.
R43 May cause sensitisation by skin contact.
S-phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
S61 avoid release to the environment refer to special instructions / safety data sheet

16: OTHER INFORMATION:

Liquid epoxy resins are classified as dangerous to the environment under a voluntary agreement by the Association of Plastic Manufacturers Europe (APME) based on available data. Resin Surfaces Limited have adopted this practice as part of their duty of care under the Environmental Protection Act 1992

The base and hardener are mixed together in the approximate ratio as follows:
base: 60-80% by weight
hardener: 20-40% by weight
All the foregoing information should be regarded as being applicable to the finished paint as well as to the individual base and hardener components.

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