

SAFETY DATA SHEET, ZENRITE COAT LIGHT

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

NAME OF PRODUCT: ZENRITE COAT LIGHT. WATER BASED 2-PACK EPOXY RESIN FLOOR FINISH

COMPANY: ZENRITE LIMITED

EMERGENCY TELEPHONE: 02476 687167

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	20-40%	25068-38-6	Xi	R36/38,43,51,53
Non-toxic pigments*, water & non-toxic additives (*except Resuseal W.B.Clear)	40-80%			
Composition of hardener:				
3,6,9,12-tetraazatetradecane-1,14-diamine	<3%	4067-16-7	C N	R34,43,50/53
Polyamide	20-40%		Xi	R38,41
Water & non-toxic additives	60-80%			

3: HAZARDS IDENTIFICATION:

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

Hardener: Irritating to eyes and skin. Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment
May cause sensitisation by skin contact.
Risk of serious damage to eyes

4: FIRST AID MEASURES:

Eye contact: Rinse immediately with water, continuing for 15 minutes. Seek immediate medical attention.

Skin contact: Rinse immediately with plenty of soap and water. Remove contaminated clothing. In case of persistent irritation, or if a rash develops, seek medical attention.

Inhalation: Remove the affected person to fresh air and allow to rest. In case of breathing difficulty, or distress, seek medical attention.

Ingestion: Immediately rinse mouth with water and seek medical attention. If this is not immediately available, drink 1 or 2 pints of water.

5: 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. Wash the area clean with waterspray. Contain wash water and dispose safely
Disposal: See section 13.

7: HANDLING AND STORAGE:

Handling: Wear goggles or a face shield, impervious gloves and protective clothing.
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 water-based liquid.
Colour: varies according to shade of finish required.
Odour: weak odour.
Vapour pressure: about 2.3 kPa at 20 °C.
Boiling point: 100 °C.
Flash point: >200 °C.
Density: about 1.35 g/cm³ at 20 °C.
Solubility: miscible with water.
Viscosity: <1 Pa.s at 25 °C.

Hardener: Physical state: water-based clear liquid.
Colour: yellow.
Odour: slightly ammoniacal.
Vapour pressure: about 2.3 kPa at 20 °C.
Boiling point: 100 °C.
Flash point: not determined.
Self ignition temperature: >150 °C.
Density: about 1.02 g/cm³ at 20 °C.
Solubility: miscible 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. In case of a fire, toxic fumes of nitrogen oxides may be formed.

11: TOXICOLOGICAL INFORMATION:

Base: LD50 oral, rat: >15000 mg/kg. Epoxy resins such as contained in this product have been shown to cause irritation in humans on skin and eyes Skin sensitisation was also observed
Hardener: LD50 oral, rat: >5000 mg/kg. estimate The polyamide as contained in this product is an irritant to skin and a severe irritant to eyes. When opening the container some ammonia vapour may escape, which may irritate the respiratory tract.

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. Whilst no data is available for the Hardener solution it is reasonable to assume that this will be toxic to aquatic organisms and may cause long term adverse effects to the aquatic environment.

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. Due to the solubility of the hardener it must be assumed that landfill options are less desirable than other routes.

14: TRANSPORT INFORMATION:

Base: ADR/RID: Class 9, 11c, Hazard No.90, UN No.3082,
Environmentally hazardous substance, liquid, n.o.s.
IMDG: Not regulated.
ICAO/IATA: Not regulated.

Hardener: ADR environmentally hazardous substance

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: 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, rinse immediately with plenty of soap and water.
S37/39 Wear suitable gloves and eye/face protection.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Hardener: Hazard labels: Xi Irritant.
N Dangerous to the environment

R-phrases: R38 Irritating to eyes and skin. R41 Risk of serious damage to eyes.
R 43 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.
S36/37/39 Wear suitable gloves protective clothing and eye/face protection.
S61 avoid release to the environment refer to special instructions / 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. ZENRITE 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:

Pigmented systems base: 50-60% by weight hardener: 40-50% by weight

Clear base 60-70% by weight hardener 30-40% 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.

Hardener 07/2003

Hardener 0805

