

Material Safety Datasheet for Solcem Epoxy Repair (Base Component)

SECTION 1: IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Material & Description:	Solseal Epoxy Resin Mortar (Base Component)
Trade Name:	Solseal Epoxy Repair Mortar
Chemical Name & Synonyms:	None.
Manufacturer:	Solco.
Address:	Unit 51, Portmanmoor Road Ind Est, Ocean Park, Cardiff, CF24 5HB.
Emergency Telephone Number:	+ 44 (0)808 1686927.

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients

Mixture of Epoxy Resin and reactive diluent

Name	EC No	CAS –No	Content	Symbol	R Phrase
Bisphenol A=Epichlorhydrin Resin with no. average M.W.=700	500-06-8	028064-14-4	40-50%	Xi,N	R36/38 R43 R51 R53
Bisphenol F = Epoxy Resin		9003-36-5	16-18%	Xi N	R36/38 R43 R51 R53
C ₁₂ -C ₁₄ aliphatic Glycidyl Ether		68609-97-2	8-15%	Xi,N	R36/38 R43 R51 R53

SECTION 3: HAZARDS IDENTIFICATION / ADVERSE HUMAN HEALTH EFFECTS

Main Hazards

Irritating to eyes and skin. May cause sensitisation by skin contact.
Not classified as flammable but will burn.

SECTION 4: FIRST AID MEASURES

Skin contact:	Remove contaminated clothing. After contact with skin, wash immediately with plenty of clean water (S28). Seek medical attention if irritation persists.
Eyes contact:	Speed is essential. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice (S26) Eye wash stations should be available in areas where exposure is possible.
Ingestion:	Do not induce vomiting. If rapid recovery does not occur obtain medical attention
Inhalation:	No specific measures. Remove to fresh air in case of indisposition.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA.

Extinguishing media:	Dry powder, Carbon Dioxide, Water spray.
Exposure hazards:	Carbon Monoxide may be evolved if incomplete combustion occurs.
Protection of Fire-fighters	Wear full protective clothing and self contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES / SPILLS.

Personal precautions	Avoid skin, eye and clothing contact. Provide sufficient ventilation during use
Environmental precautions	Prevent from entering sewer system, surface water or soil. Prevent from spreading into drains, ditches or rivers by using sand, earth or other appropriate barriers
Clean-up procedures	Soak up with absorbent material e.g. dry sand, vermiculite, and dispose of as instructed Shovel up and place in a labeled, sealable container for subsequent disposal.

SECTION 7: HANDLING AND STORAGE.

Storage conditions:	Avoid temperatures below 5°C Store at ambient temperatures. Must only be kept in original packaging
Handling:	Use in well ventilated areas. Keep containers tightly closed when not in use. Avoid contact with skin, eyes and clothing.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION.

Engineering Measures:	Ensure there is sufficient ventilation of the area
Hand protection:	Use heavy duty gloves. Gloves may degrade or be damaged according to different circumstances of use. Always ensure gloves you are using are in good condition. Barrier creams may help to protect exposed areas but are not substitutes for full physical protection. They should not be applied once exposure has occurred.
Eye protection:	Eye protection designed to protect against liquid splashes, conforming to EN1166 Chemical Grade, should be worn when handling dry powder or when there is risk of mixed material entering the eye. Eye protection is essential when handling alkaline material.
Skin protection:	Wear suitable overalls. Remove grossly contaminated clothing and wash skin with plenty of clean water. Practice good personal hygiene.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

State	Liquid.
Colour	Grey
Odour	Slight
Solubility in water	Negligible
Density	1.12 – 1.20/cm ³ @20°C.
Flash point °C	>200°C

SECTION 10: STABILITY AND REACTIVITY.

Stability	Stable under normal conditions
Conditions to avoid	Thermal decomposition not applicable under normal conditions. Temperatures above 95°C.
Materials to avoid	Acids, Strong Oxidising Agents, and Caustic Soda.
Haz. Decompositon Products .	Carbon Dioxide, Carbon Monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION.

Mutagenicity:	Negative Ames test..
Skin:	Skin irritation tested in rabbits : Irritant
Eye:	Eye irritation tested in rabbits : Irritant
Ingestion:	LD50 Acute oral toxicity in rats : >2000mg/kg.

SECTION 12: ECOLOGICAL INFORMATION.

Mobility	Readily absorbed into soil. Prevent contamination of soil, drains or surface water
Bioaccumulative potential	Material sinks in water and has the potential to Bio-accumulate.
Other adverse effects	Not readily Bio-degradable (Sturm Test), Toxic to aquatic organisms

SECTION 13: DISPOSAL CONSIDERATIONS.

Recover or recycle if possible.
Otherwise dispose to licensed disposal contractor.

SECTION 14: TRANSPORT / LABEL INFORMATION.

ADR/RID			
UN no	3082	ADR Class	9
Packing Group	III	Classification	C11
Proper Shipping Name	Environmentally Hazardous Substance, Liquid n.o.s (Bisphenol A Epoxy Resins)	Code Risk no	90
IMDG/IMO			
UN no	3082	Class	9
Packing Group	III	EmS	F-A S-F
Marine Pollutant	Y	Labelling	9
IATA/ICAO			
UN no	3082	Class	9
Packing Group	III	Packing Instruction	914
Labelling	9		(cargo/passenger aircraft)

SECTION 15: REGULATORY INFORMATION.

Hazard Symbol	Xi, Irritant. N, Dangerous to the environment
Risk Phrases	R36/38, Irritating to eyes and skin. R43, May cause sensitization by skin contact. R51, Toxic to aquatic organisms R53, 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 soap and water. S37/39, Wear suitable protective clothing, gloves, and eye/face protection. S61, Avoid release to the environment.

SECTION 16: ANY OTHER HEALTH AND SAFETY INFORMATION.**Other information**

Read in conjunction with the appropriate CURING AGENT component Material Safety Data Sheet.

Training:

All operatives using this material must receive proper training with regard to the health and safety aspects relating to it.

Recommended uses and restrictions:

Use only in conjunction with appropriate industrial practice.

Sources of information used to compile MSDS:

Various, further information available by special request.

NOTE: The information contained in this Material Safety Data Sheet does not constitute the user's own assessment of workplace risk as required by other Health and Safety legislation. The data given here is based on current knowledge and experience and may be updated as new information becomes available. The purpose of this Material Safety Data Sheet is to describe the product in terms of its safety requirements. The data does not signify any warranty with regard to its properties. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use.