

## MATERIAL SAFETY DATA SHEET BINDER RESIN

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

Product name: BINDER RESIN  
Product no: BINDER RESIN  
Supplier: Ecosea Ltd  
Ocean Quay  
Belvidere Road  
Southampton SO14 5QY  
Hampshire UK  
Tel: +44 2380 336636  
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### 2- COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No	Content	Classification
EPOXY RESIN (Number average MW <= 700)	500-033-5	25068-38-6	60-100%	R43 Xi;R36/38 N;R51/53
BISPHENOL F EPOXY RESIN		28064-14-4	30-60%	Xi, R36/38. N ;R51/53. R43.
ALKYLGLYCIDYL ETHER		68609-97-2	5-10%	Xi ; R36/38. R43
BUTANEDIOLDIGLYCIDYL ETHER	219371-7	2425-79-8	1-5%	Xn;R20/21 R43 Xi ; R36/38

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

### 3- HAZARDS IDENTIFICATION

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

CLASSIFICATION Xi;R36/38. R43. N;R51/53.

### 4- FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

#### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

#### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 5- FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc. Foam. DO NOT use water if avoidable.

#### SPECIAL FIRE FIGHTING PROCEDURES

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Move container from fire area if it can be done without risk. Water spray should be used to cool containers. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

### SPECIFIC HAZARDS

In case of fire, toxic gases may be formed. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### PROTECTIVE MEASURES IN FIRE

Use protective equipment appropriate for surrounding materials. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6- ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

Use protective gloves, goggles and suitable protective clothing. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces.

### ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

### SPILL CLEAN UP METHODS

Wear necessary protective equipment. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Runoff or release to sewer, waterway or ground is forbidden. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery.

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## 7- HANDLING AND STORAGE

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### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. 10 - 30 °C Keep away from heat, sparks and open flame. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from light, including direct sunrays. Store separated from: Acids. Alkalis. Oxidising material.

### STORAGE CLASS

Chemical storage.

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## 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

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### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Provide eyewash station.

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

### HAND PROTECTION

Use protective gloves. 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

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Wear splash-proof eye goggles to prevent any possibility of eye contact. Use face shield in case of splash risk.

### HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

### SKIN PROTECTION

Wear apron or protective clothing in case of splashes.

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## 9- PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE	Coloured liquid
COLOUR	Black
ODOUR	Mild
SOLUBILITY	Insoluble in water.
RELATIVE DENSITY	1.07.25
FLASH POINT (°C)	> 100 CC (Closed cup).

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## 10- STABILITY AND REACTIVITY

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### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

### MATERIALS TO AVOID

Strong acids. Strong alkalies. Strong oxidising substances.

### HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire, toxic gases may be formed. Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

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## 11- TOXICOLOGICAL INFORMATION

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### INHALATION

Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

### INGESTION

May cause discomfort if swallowed.

### SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact. May cause skin irritation/eczema

### EYE CONTACT

Irritating to eyes.

### ROUTE OF ENTRY

Skin and/or eye contact.

### TARGET ORGANS

Skin. Eyes.

### MEDICAL SYMPTOMS

Upper respiratory irritation. Skin irritation. Skin contact may cause: Allergic rash. Eye contact may cause: Irritation of eyes and mucous membranes. May cause discomfort if swallowed.

### MEDICAL CONSIDERATIONS

Skin disorders and allergies. Persons with rash are directed to skin expert for examination of allergic eczema.

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## 12- ECOLOGICAL INFORMATION

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### ECOTOXICITY

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

### BIOACCUMULATION

No data available on bioaccumulation.

### DEGRADABILITY

No data available.

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**13- DISPOSAL CONSIDERATIONS**

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**DISPOSAL METHODS**

Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements.

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**14- TRANSPORT INFORMATION**

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UK ROAD CLASS	9		
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ), GLYCIDOXYPROPYLTRIMETHOXYSILANE)		
ROAD UN NO.	3082	UK ROAD PACK GR.	III
ADR CLASS NO.	9		
ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.		
ADR PACK GROUP	III	ADR LABEL NO.	9
HAZCHEM CODE	2X	CEFIC TEC(R) NO.	90GM6-III
RID CLASS NO.	9	RID PACK GROUP	III
UN NO. SEA	3082	IMDG CLASS	9
IMDG PAGE NO.	9	IMDG PACK GR.	III
EMS	F-A, S-F	MFAG	See Guide
MARINE POLLUTANT	No.	UN AIR NO.	3082
ICAO CLASS	9	AIR PACK GR.	III

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**15- REGULATORY INFORMATION**

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**LABELLING**



**CONTAINS**

EPOXY RESIN (Number average MW <= 700 )  
BISPHENOL F EPOXY RESIN  
ALKYGLYCIDYL ETHER  
BUTANEDIOGLYCIDYL ETHER

**RISK PHRASES**

R43            May cause sensitisation by skin contact.  
R36/38       Irritating to eyes and skin.

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	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SAFETY PHRASES	S24/25	Avoid contact with skin and eyes.
	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.
	S60	This material and its container must be disposed of as hazardous waste.
	P5	Contains epoxy constituents. See information supplied by the manufacturer.

**UK REGULATORY REFERENCES**

Health and Safety at Work Act 1974.

**EU DIRECTIVES**

System of specific information relating to Dangerous Preparations. 2001/58/EEC. Dangerous Substance Directive 67/548/EEC as amended. Dangerous Preparations Directive 1999/45/EEC.

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (SI 1689)

**APPROVED CODE OF PRACTICE**

Control of Substances Hazardous to Health Regulations 2002.

**GUIDANCE NOTES**

Workplace Exposure Limits EH40.

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**16- OTHER INFORMATION**

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REVISION DATE		17.07.06
REV. NO./REPL. SDS GENERATED		A
SDS NO.		10170
SAFETY DATA SHEET STATUS		Approved.
RISK PHRASES	R20/21	Harmful by inhalation and in contact with skin.
	R43	May cause sensitisation by skin contact.
	R36/38	Irritating to eyes and skin.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



## **MATERIAL SAFETY DATA SHEET BINDER RESIN**

### **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.