

## SAFETY DATA SHEET THERMAL BONDING SYSTEM

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

PRODUCT NAME THERMAL BONDING SYSTEM  
 PRODUCT NO. ETBS-A  
 SUPPLIER ELECTROLUBE. A division of HK  
 WENTWORTH LTD  
 KINGSBURY PARK, MIDLAND ROAD  
 SWADLINCOTE  
 DERBYSHIRE, DE11 0AN  
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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	10-30%	R43 Xi;R36/38 N;R51/53
Polypropyleneglycol Diglycidylether		9072-62-2	10-30%	Xi;R36/38. R43.
ZINC OXIDE	215-222-5	1314-13-2	30-60%	N;R50/53

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

#### COMPOSITION COMMENTS

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

### 3 HAZARDS IDENTIFICATION

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

CLASSIFICATION Xi;R36/38. R43. N;R50/53.

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once.

#### INGESTION

DO NOT INDUCE VOMITING! Get medical attention immediately! Rinse nose, mouth and throat with water.

#### SKIN CONTACT

Remove affected person from source of contamination. Rinse the skin immediately with lots of water. Get medical attention promptly if symptoms occur after washing.

#### EYE CONTACT

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. DO NOT use water if avoidable.

### 6 ACCIDENTAL RELEASE MEASURES

#### SPILL CLEAN UP METHODS

Keep combustibles away from spilled material. Stop leak if possible without risk. DO NOT touch spilled material! Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. 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 cool, dry well-ventilated place. Keep in original container.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

## THERMAL BONDING SYSTEM

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT**



**ENGINEERING MEASURES**

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

**RESPIRATORY EQUIPMENT**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace 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**

Wear approved, tight fitting safety glasses where splashing is probable.

**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. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE	Viscous Liquid		
COLOUR	Blue		
SOLUBILITY	Insoluble in water		
RELATIVE DENSITY	n/a @ °c	VISCOSITY	N/A @ °c

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### 10 STABILITY AND REACTIVITY

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**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 (NOx).

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### 11 TOXICOLOGICAL INFORMATION

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**INHALATION**

May cause irritation to the respiratory system.

**INGESTION**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

**SKIN CONTACT**

Irritating to skin. May cause sensitisation by skin contact. May cause allergic contact eczema. Prolonged contact may cause dryness of the skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

**EYE CONTACT**

Irritating to eyes. May cause chemical eye burns.

**ROUTE OF ENTRY**

Inhalation. Ingestion. Skin and/or eye contact.

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### 12 ECOLOGICAL INFORMATION

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**ECOTOXICITY**

Dangerous for the environment if discharged into watercourses.

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### 13 DISPOSAL CONSIDERATIONS

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**DISPOSAL METHODS**

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

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### 14 TRANSPORT INFORMATION

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**THERMAL BONDING SYSTEM**

UK ROAD CLASS	9		
PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE, EPOXY RESIN (Number average MW <= 700 ))		
UK ROAD PACK GR.	III	ADR CLASS NO.	9
ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.	ADR PACK GROUP	III
HAZARD No. (ADR)	90	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 PACK GR.	III	EMS	None
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	3082	ICAO CLASS	9
AIR PACK GR.	III		

**15 REGULATORY INFORMATION**

## LABELLING



Irritant



Dangerous for the environment

## CONTAINS

EPOXY RESIN (Number average MW <= 700 )  
Polypropyleneglycol Diglycidylether

## RISK PHRASES

R43 May cause sensitisation by skin contact.  
R36/38 Irritating to eyes and skin.  
R50/53 Very 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.  
S37 Wear suitable gloves.  
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 1988.

## 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/EEC. System of specific information relating to Dangerous Preparations. 2001/58/EEC.

## 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

Helen O'Reilly

REVISION DATE: SEPTEMBER 2005

## THERMAL BONDING SYSTEM

REVISION DATE SEPTEMBER 2005

REV. NO./REPL. SDS GENERATED 3

SDS NO. 11154

### RISK PHRASES IN FULL

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### DISCLAIMER

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