# SAFETY DATA SHEET THERMAL BONDING SYSTEM

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

PRODUCT NAME: THERMAL BONDING SYSTEM

PART No.: ETBS-B

**SUPPLIER:** H K WENTWORTH PTY LIMITED

P.O. BOX 339

**BROOKVALE, NSW 2100** 

AUSTRALIA Tel: 02 9938 1566 Fax: 02 9938 1566

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME CONTENT

CAS No.: EINECS Nr.: CLASSIFICATION

TRIETHYLENETETRAMINE 5-10 %

112-24-3 203-950-6 C R-21, 34, 43, 52/53

4,4'-METHYLENEDIANILINE 1-5 %

101-77-9 202-974-4 T ,N R-45, 39/23/24/25, 43, 48/20/21/22, 51/53 Carc2

Mut3

ZINC OXIDE 30-60 %

1314-13-2 N R-50/53

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

### 3. HAZARDS IDENTIFICATION:

Irritating to eyes and skin. May cause sensitisation by skin contact. May cause cancer. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Carcinogen Category 2. Mutagen Category 3.

HAZARDOUS SUBSTANCE: DANGEROUS GOODS

#### 4. FIRST AID MEASURES:

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

continues.

INHALATION: Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get

medical attention if any discomfort continues. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected

person by administering 100% oxygen. Get medical attention.

INGESTION: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT

OR DRINK FLUIDS! Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get

medical attention immediately!

**SKIN:** Remove affected person from source of contamination. Wash the skin immediately with

soap and water. Get medical attention promptly if symptoms occur after washing.

**EYES:** Remove victim immediately from source of exposure. 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. Dry chemicals, sand, dolomite etc.

DO NOT use water if avoidable.

# 6. ACCIDENTAL RELEASE MEASURES:

SPILL CLEANUP METHODS: Wear necessary protective equipment. Stop leak if possible without risk. DO NOT touch

spilled material. Absorb in vermiculite, dry sand or earth and place into containers.

#### 7. HANDLING AND STORAGE:

**USAGE PRECAUTIONS:** Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame.

Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is

above accepted level.

STORAGE PRECAUTIONS: Keep in cool, dry, ventilated storage and closed containers. Keep in original container.

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME: CAS No.: STD LT EXP 8 Hrs ST EXP 15 Min

4,4'-METHYLENEDIANILINE 101-77-9 MEL 0.08 mg/m3

**INGREDIENT COMMENTS:** MEL = Maximum Exposure Limit.

PROTECTIVE EQUIPMENT:





**VENTILATION:** Provide adequate general and local exhaust ventilation.

**RESPIRATORS:** No specific recommendation made, but respiratory protection must be used if the

general level exceeds the Occupational Exposure Level (OEL).

**PROTECTIVE GLOVES:** Use protective gloves.

**EYE PROTECTION:** Wear approved safety goggles.

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

prolonged vapour contact.

HYGIENIC WORK PRACTICES: DO NOT SMOKE IN WORK AREA! 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. Promptly remove any clothing that becomes contaminated. No eating or

drinking while working with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Paste or slurry.

COLOUR: Cream.

**SOLUBILITY DESCRIPTION:** Immiscible with water.

FLASH POINT (°C): >100 Method:

#### 10. STABILITY AND REACTIVITY:

STABILITY: Normally stable.

**CONDITIONS TO AVOID:** Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

HAZARDOUS DECOMP.

**PRODUCTS:** 

Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

#### 11. TOXICOLOGICAL INFORMATION:

**INHALATION:** Harmful: possible risk of irreversible effects through inhalation.

**INGESTION:** Harmful: possible risk of irreversible effects if swallowed. May cause stomach pain or

vomiting.

**SKIN:** Harmful: possible risk of irreversible effects in contact with skin. May cause

sensitisation by skin contact.

**EYES:** Irritating to eyes.

**HEALTH WARNINGS:** Known or suspected carcinogen for humans. Known or suspected mutagen.

OTHER HEALTH EFFECTS: Carcinogen Category 2. Mutagen Category 3.

### 12. ECOLOGICAL INFORMATION:

**ECOLOGICAL INFORMATION:** Dangerous for the environment if discharged into watercourses.

### 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHODS:** Dispose of in accordance with Local Authority requirements.

#### 14. TRANSPORT INFORMATION:

#### LABEL FOR CONVEYANCE:



UN No. ROAD: 2735

UK ROAD TRANSPORT CLASS: 8

UK ROAD PACK GR.:

ADR CLASS No.: 8

ADR CLASS: Class 8: Corrosive substances.

ADR ITEM No.:

ADR LABEL No.: 8

HAZCHEM CODE: 3X

CEFIC TEC(R) No.: 80GC7-II+III

PROPER SHIPPING NAME I: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE,

N.O.S (TRIETHYLENETETRAMINE)

RID CLASS No.: 8

RID ITEM No.:

UN No. SEA: 2735

IMDG CLASS: 8

IMDG PACK GR.:

**EmS No.:** F-A; S-B

MFAG TABLE No.: See Guide

MARINE POLLUTANT: No.

UN No., AIR: 2735

ICAO CLASS: 8

AIR PACK GR.:

#### 15. REGULATORY INFORMATION:

#### LABEL FOR SUPPLY:





RISK PHRASES: R-36/38 Irritating to eyes and skin.

R-43 May cause sensitisation by skin contact.

R-45 May cause cancer.

R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R-68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in

contact with skin and if swallowed.

**SAFETY PHRASES:** P-11 Restricted to professional users.

S-24/25 Avoid contact with skin and eyes.

S-36/37 Wear suitable protective clothing and gloves.

S-38 In case of insufficient ventilation, wear suitable respiratory equipment.

S-45 In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible).

S-53 Avoid exposure - obtain special instructions before use.

**ENVIRONMENTAL LISTING:** Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste

Regulations) Act 1980.

**EU DIRECTIVES:** System of specific information relating to Dangerous Preparations. 91\155. Dangerous

Substance Directive 67\548. Dangerous Preparations Directive 88\379.

STATUTORY INSTRUMENTS: Chemicals (Hazard Information and Packaging) Regulations. Control of Substances

Hazardous to Health.

APPROVED CODE OF PRACTICE: Classification and Labelling of Substances and Preparations Dangerous for Supply.

Safety Data Sheets for Substances and Preparations L62.

GUIDANCE NOTES: Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation

HS(G)37. CHIP for everyone HSG(108).

#### 16. OTHER INFORMATION:

USER NOTES: CN No 39073000

**REVISION COMMENTS:** Revised in accordance with CHIP3 and EU Directive 1999/45/EC

ISSUED BY: Helen O'Reilly

**REVISION DATE**: NOVEMBER 2003

REV. No./REPL. SDS GENERATED: 1

**SDS No.:** 10988

**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 unless specified in the text. The information contained in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or

quality specification

R-PHRASES (Full Text): R-45 May cause cancer. R-39/23/24/25 Toxic: danger of very serious irreversible

effects through inhalation, in contact with skin and if swallowed. R-43 May cause sensitisation by skin contact. R-48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-21 Harmful in contact with skin. R-34 Causes burns. R-52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-50/53 Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.