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MATERIAL SAFETY DATA SHEET

Version Number: 3
Date Issued: 10/03/2005

IDENTIFICATION

Product Name: ARMOURBOND HARDENER

Other Names:

Description: Modified amine preparation

Uses: Hardener component of two component protective coating

U N Number: Not Specified

Dangerous Goods Class: Not Restricted

Hazchem Code: Not Specified

Toxic Substances Schedule: Not Restricted

Packing Code: N.O.S.

Classification of Hazardous Nature:

Non Hazardous according to NZ Dangerous Goods and Toxic
Substance Regulations.

Physical Description/Properties

Appearance-Viscosity-Odour-pH: Viscous liquid, dark colour. Amine odour.

Melting or Freezing Point: Not known

Boiling Point: Not known

Vapour Pressure (mm Hg @ 25 C): Not known

Vapour Density (Air=1): Not known

Solubility in Water (g/L @20 C): Less than 50

Percent Volatile (by weight): 0%

Specific Gravity (Water=1): 1

Evaporation Rate (Butyl Acetate=1): Less than 1

INGREDIENTS

CAS Reg. No.

Approx. Proportion

WES - TWA

Aromatic Hydrocarbon Resin

Not known

Med 10-60%

None Established +

Aliphatic Ketimine adduct

Not known

Med 10-60%

None Established

Polyamide Resin

Not known

Med 10-60%

None Established +

2,4,6-Tris dimethylaminomethyl phen

90-72-2

Low 0-10%

None Established +

Benzyl Alcohol

100-51-6

Low 0 - 10%

None Established +

+ NZ OSH (WES) 2002

HEALTH HAZARD INFORMATION

Health Effects:-

Skin: Irritating to skin upon repeated or prolonged contact. Can cause sensitization or allergic reaction such as rash or hives.

Eyes: Moderately irritating to eyes.

Inhaled: Vapour or mist is irritating to mucous membranes and respiratory system. Excessive inhalation can cause headache, nausea, dizziness, or asphyxiation.

Swallowed: Can be harmful if swallowed.

Long Term Hazard: Repeated exposure may cause skin sensitisation.

First Aid:-

Skin: Wash affected area thoroughly with soap and water.

Eyes: Flush eyes immediately with plenty of water for at least 15 minutes and get medical attention.

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Inhaled: Provide fresh air; give oxygen or artificial respiration if breathing laboured.

Swallowed: If swallowed dilute by giving two glasses of water to drink. DO NOT induce vomiting. Consult Physician or New Zealand National Poisons Centre (Ph 0800 764 766) Australian National Poisons Centre (Ph 1800 131 126) IMMEDIATELY. Never give anything by mouth to an unconscious person.

Advice to Doctor: Treat symptomatically.

PRECAUTIONS FOR USE

Personal Protection:-

Skin: Protective clothing. Gloves of neoprene or nitrile rubber-Industrial weight lined gauntlet recommended.

Eyes: Solvent resistant safety eyewear with splash guards or side shields to prevent eye contact.

Breathing: Class AUS 1 half face respirator with type A organic vapour filter and class P1 particulate filter.

Other: Use in well ventilated area with explosion proof equipment. Mixed product contains hazards from both components.

Ventilation: Sufficient ventilation, in volume and pattern, should be provided to keep air contaminant concentrations below WES - TWA limits.

SAFE HANDLING INFORMATION

Storage and Transport:-

Storage Maximum: 40°C. Store cool at constant temperature.

Temperature: Minimum: 1°C

Container Type and Material: Steel tins.

Incompatible Substances: Strong oxidizers, acids, alkalis.

Conditions to Avoid: Heat, open flame, arc or sparks

Hazardous Polymerisation: Will not occur.

Usual Decomposition Products Oxides of Carbon and Nitrogen.

Spills: Keep spectators away and avoid breathing vapours or dust. Floor may be slippery: use care to avoid falling. Dike and contain spill with inert materials (eg sand). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills (and as much as possible cleaning runoffs) out of municipal sewers and open bodies of water.

Disposal: Incinerate the liquid and contaminated diking material at a permitted facility, or otherwise dispose of in accordance with all applicable regulations.

Fire/Explosion Hazard: Flash Point: 100°C

Auto Ignition Temperature: Not known

Upper Explosion Limit %: 7.0

Lower Explosion Limit %: 1.0

Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical.

Special Fire Fighting Procedures:

Wear self contained breathing apparatus. Closed containers may explode when exposed to extreme heat. Isolate from heat, electrical equipment, sparks and open flame.

Other Information:

Keep container closed, upright when not in use. Store in cool, dry, well ventilated area. N.O.S. NOT OTHERWISE SPECIFIED

Contact Point: New Zealand Telephone 0800 737363 Australia Telephone 1800 738383 (24 hour)

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