

### MATERIAL SAFETY DATA SHEET CHEM-FIX HAND MIX PART A

#### 1. PRODUCT IDENTIFICATION / NAME

**Product name:** Chem-Fix Hand Mix Part A  
**Chemical product name:** Resin Blend  
**Application:** Conveyor Belt Repair Kit  
**Supplier:** Rice Engineering  
 Unit A7  
 The Palisades  
 39 Kelly Road, Jet Park,  
 Boksburg, 1459  
 South Africa  
 Tel: +27 (82) 326 8277

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Name:** Diethylbenzenediamine  
**EC No.** 270-877-4  
**CAS-No.** 68479-98-1  
**Content:** 10 -20%  
**Classification:** Xn;R21/22, R48/22 Xi;R36 N;R50/53



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

#### 3. HAZARDOUS IDENTIFICATION

**Harmful:** Danger of serious damage to health by prolonged exposure if swallowed. Toxic to aquatic organisms may cause longterm adverse effects in the aquatic environment.

**Classification:** Xn;R48/22. N;R51/53

**Environment:** As supplied this "resin" product contains ingredients which have hazards for the environment, but after fully curing the "iso" component these ingredients will become part of the polymer matrix and represent no further hazard.

#### 4. FIRST AID MEASURES

**Inhalation:** Move the exposed person to fresh air at once.

**Ingestion:** Rinse mouth thoroughly. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if any discomfort continues.

**Skin contact:** Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists 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. Get medical attention if any discomfort continues.

## 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Foam, carbon dioxide or dry powder. Larger fires: Water spray, fog or mist.
<b>Special hazards arising from the substance or mixture:</b>	Fire or high temperatures create: Toxic gasses/vapours/fumes of Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
<b>Fire-fighter advice:</b>	Keep run-off water out of sewers and water sources. Dike for water control. Move container from fire area if it can be done without risk. No specific fire fighting procedure given.
<b>Additional information:</b>	Prolonged exposure to heat may lead to formation of toxic gasses.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	High risk of slipping due to leakage/spillage of product. Use personal protective clothing.
<b>Environmental precautions:</b>	Do not allow to enter drains, sewers or water courses. Collect and dispose spillage as indicated in section 13.
<b>Containment and clean-up:</b>	Do not touch spilled material. Clean-up personnel should use respiratory and/or liquid contact protection. Avoid contact with skin or inhalation of spillage, dust or vapour. Collect with absorbent, non-combustible material into suitable containers. Shovel into dry containers. Cover and move the containers. Flush the area with water. Do not contaminate water sources or sewer. Wash thoroughly after dealing with a spillage. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid spilling, skin and eye contact. Do not use contact lenses.
<b>Storage:</b>	Keep in original container. Keep containers tightly closed.
<b>Storage class:</b>	Chemical storage.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Protective equipment:**



<b>Engineering measures:</b>	All handling to take place in well-ventilated area.
<b>Respiratory protection:</b>	Respiratory protection may be required. Respiratory protection must be used if air contamination exceeds acceptable level.
<b>Hand protection:</b>	Chemical resistant gloves required for prolonged or repeated contact. Protection gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Nitrile or Neoprene.
<b>Eye protection:</b>	Wear splash-proof eye goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with this chemical.
<b>Safety and hygiene measures:</b>	Wearing of closed work clothing is required additionally to the stated personal protection equipment. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.
<b>Other protection:</b>	Wear appropriate clothing to prevent any possibility of skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Viscous liquid
Colour:	Black
Odour:	Slight Odour
Solidification temperature (°C):	20
Boiling point (°C):	>200 760 mm Hg
Flash point (°C):	>200 CC (Closed cup)
Ignition pressure:	>360
Vapour pressure:	<7mbar @ 25°C
Density:	1,0 - 1,1 @ 25°C
Solubility in water:	Soluble in organic solvents
Viscosity:	500 -800 mPas @ 25°C
Self-ignition:	>300
Thermal decomposition:	No decomposition if stored as indicated
Miscibility with water:	Partly miscible
Volatile by volume (%):	<0,5

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperature conditions.
Materials to avoid:	Acids, oxidizing agents.
Hazardous reactions:	None, if stored and handled as indicated.
Conditions to avoid:	Avoid contact with acids.
Hazardous decompositions:	Toxic gasses/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Assessment	Virtually non-toxic after a single skin contact. Virtually non-toxic by inhalation. Virtually non-toxic after a single ingestion.
Potential Acute Health Effects: Irritation assessment	Spray and vapour in the eyes may cause irritation and smarting. Liquid may irritate skin.
Respiratory and skin sensitization: Assessment of repeated dose toxicity	Harmful: danger of serious damage to health by prolonged exposure if swallowed. Repeated exposure to large quantities may effect certain organs.

## 12. ECOLOGICAL INFORMATION

Toxicity: Aquatic toxicity	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment. The product contains a substance which may cause long-term adverse effects on the environment. (See below for details). Dangerous for the environment: May cause long-term adverse effects in the aquatic environment. LC 50, 96 Hrs, FISH mg/l 194      EC 50, 48 Hrs, DAPHNIA <1
Name:	Diethylmenthylbenzenediamine
Partition coefficient:	2.2 Log Kow
Ecological information: Mobility	Absorbtion to solid soil phase is not expected.
Persistence and degradability:	The product is not readily biodegradable.
Bio-accumulative potential:	Does not significantly accumulate in organisms.
Additional remarks:	This product contains no organically-bound halogen (AOX).
Eco-toxicological advice:	Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

**Proper shipping name:** Environmentally hazardous substance, Liquid, N.O.S. (Diethylmethylbenzenediamine), Marine pollutant.

**UN No Road Local/International transport regulations:** 3082 ADR Class No 9.

**ADR/RID class for land:** Class 9: Miscellaneous dangerous substances and articles. ADR Class No 9.

**IATA/ICAO class for air:** Not classified as dangerous.

**IMDG Class for sea:** III

**AND Class for inland waterways:**

**Hazard No (ADR):** 90 Environmentally hazardous Substance; miscellaneous dangerous substances. IMDG Class 9

### 15. REGULATORY INFORMATION

**EEC Hazard Classification:**

**Risk Phases:** R48/22  
Contains Diethylmethylbenzenediamine  
Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R51/53  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phases:**

S36 Wear suitable protective clothing.  
S57 Use appropriate containment to avoid environmental contamination.  
S60 This material and its container must be disposed of as hazardous waste.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

U2 Do not allow ingress of moisture.

**UK Regulatory References:** Occupational Exposure Limits EH40. Control of substances Hazardous to Health. Chemical (Hazard Information & Packaging) Regulations.

**EU Directives:** Dangerous Preparations Directive 199/45/EC. Complies with: Directive 2002/95/EC (on the restriction and use of certain hazardous substances in electrical and electronic equipment. This product does not contain any of the chemicals listed on the Substances of Very High Concern (SVHC) Candidate List.

**Guidance Notes:** Isocyanates toxic hazards and precautions EH16. CHIP for everyone HSG(108). Baxenden Brochure; Isocyanates, Polyurethane and Associated Products - Safety Advice.

**International Registrations:** The components of this preparation are either listed on the following national registers or are exempt from any requirement of this registers:  
EH - REACH  
Australia - NICNAS  
Canada - DSL  
China - IECSC  
Korea - TCCL  
Philippines - PICCS  
USA - TSCA  
New Zealand

**National Legislation:** National Road Traffic Act 1996 (Act 93 of 1996) Occupational Health and Safety Act 1993 (Act 85 of 1993) Hazardous Substances Act 1973 (Act 15 of 1973)

## 16. OTHER INFORMATION

<b>Information sources:</b>	Material Safety Data Sheet, Misc. manufacturers.
<b>Risk phrases in full</b>	
<b>R21/22</b>	Harmful in contact with skin and if swallowed.
<b>R36</b>	Irritating to eyes.
<b>R48/22</b>	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
<b>R50/53</b>	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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