

Material Safety Data Sheet



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I. Identification of the Material and Supplier

Material Identification: Flatproofing Material, B-side
**RePneu, RePneu II, RePneu OEM,
SuperFlex**

Chemical Family: Polyether polyol mixture

Distributed in Australia by:

Voest Alpine Mining
Old Punt Rd., Tomago, NSW 2322, Australia
Telephone: 61249852660
After Hours: 01161419022500
FAX: 61249852699
International Emergency, Call collect:
0011-1-(703) 527-3887

II. Hazards Identification

Product Classification: "T" according to the criteria of Nat'l Occupational Health & Safety Commission

Eye and Skin Contact: Prolonged and or repeated contact may cause irritation and allergic sensitivity for some individuals.

Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

Ingestion: No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of ingestion.

Inhalation: No evidence of toxicity due to inhalation of vapors has been found under normal working conditions.

Additional Comments: This product contains petroleum oils similar to ones categorized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. If mists are generated, may cause irritation of the pulmonary tract, skin or eyes. Any potential hazard can be minimized by using recommended personal protective equipment to avoid skin contact and by washing thoroughly after each handling.

Risk Phrases: Xn, R43, R45, R68
Safety Phrases: S4, S14, S23, S51, S53, S56, S57, S60, S61, S62, S63

III. Composition/Information on Ingredients

| Hazardous Ingredients | % (w/w) | TLV | CAS NO. |
|-------------------------|---------|-----------------------------|------------|
| Petroleum hydrocarbons | 44-63% | 5 mg/m ³ TWA/PEL | 64742-03-6 |
| Aromatic amine catalyst | <1.3% | 0.1 mg/m ³ TWA | 108-45-2 |

Substances listed in the Ingredients Section are those identified as being present at a concentration of 1% or greater, or 0.1% if the substance is on the list of potential carcinogens cited in OSHA Hazard Communication Standard, 29 CFR 1910.1200 (1).

IV. First Aid Measures

Eyes: Flush immediately with water for at least 15 minutes. Obtain medical attention if pain, blinking, tears or redness persists.

Skin: Not expected to present a significant skin hazard. However, thorough washing of affected area with soap and water is recommended.

Inhalation: Remove person to fresh air. Give oxygen if needed.

Ingestion: Unlikely. If ingested, give large amounts of water and obtain medical attention.

V. Fire Fighting Measures

For information on Flammable Properties, see Section IX, "Physical and Chemical Properties".

OSHA Flammability Class: Class IIIB Combustible Liquid

NFPA Ratings: Fire – 1, Health – 2, Reactivity – 1
Special Instructions – Water Reactive

Fire and Explosion Hazards: Containers may burst under intense heat. Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open area or explode if confined.

Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxides and some HCN.

Extinguishing Media: Dry chemical, chemical foam, carbon dioxide, water spray. Contain run-off water with temporary barriers.

Fire Fighting Equipment: Use self-contained breathing apparatus and full protective clothing (Bunker gear).

VI. Accidental Release Measures

For major spills call Chemtrec: 0011-1-(703) 527-3887- International (800-424-9300) – United States

Spill or Leak Procedures: Equip responders with proper protection. Evacuate/limit access. Stop release. Impound/recover large land spill. Soak up small spill with inert solids. For slippery walking surfaces, spread granular cover or soak up. Contain and collect rapidly to minimize dispersion. Use suitable disposal containers. On water, material insoluble and may float or sink. Prevent flow to sewers and public waters. Notify fire and

environmental authorities. Report per regulatory requirements.

Neutralization Chemicals: Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Observe precautions pertaining to confined space entry.

VII. Handling and Storage

Handling and Storage Precautions: Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Containers of this material

may be hazardous when emptied, all hazard precautions given in this data sheet must be observed. Store between 68°F and 100°F. (20°C – 38°C)

VIII. Exposure Controls and Personal Protection

Respiratory Protection: None required under normal/ambient conditions where work areas are adequately ventilated. If TLV of the product or any component is exceeded, a MSHA/NIOSH approved respirator is recommended in the absence of proper environmental control.

Ventilation: Good general ventilation should be sufficient for most conditions.

Eye/Skin Protection: Use chemical worker's safety glasses, chemical resistant, natural rubber gloves.

Other Protective Clothing/Equipment: Laboratory coats or other suitable clothing to avoid skin contact. Accessible safety showers and eye wash stations are recommended.

IX. Physical and Chemical Properties

Chemical Family: Polyether polyol mixture
Chemical Name: proprietary mixture
CAS Number: N/A
Boiling Point: >530°F (276°C)
Vapor Pressure (mmHg @ 68°F): nil
Vapor Density: not determined
Solubility in Water: negligible

Specific Gravity (H₂O=1): 1.0 - 1.02
Appearance: coffee brown liquid
Odor: low to slight odor
Flash Point: 300°F (149°C)
-Method Used: ASTM D-92, C. O. C.-
Flammable Limits: LEL: not determined
UEL: not determined

X. Stability and Reactivity

Stability (Conditions to Avoid): None. Material is stable under normal handling conditions.

Hazardous Decomposition Products: May decompose in heat/fire releasing oxides of carbon and nitrogen.

Incompatibility (Materials to Avoid): Isocyanates

Hazardous Polymerization: Will not occur.

XI. Toxicological Information

Lifetime skin painting studies with refinery oils similar to those used in this material and/or its major components have produced tumors following prolonged and repeated skin contact. Repeated dermal application of these materials (30MG/KG/Day for 13 weeks) resulted in anemia, liver degeneration and injury to bone marrow and lymphoid tissues. Treatment related mortality and body weight reduction was observed at 500 MG/KG. Repeated dermal application (125 MG/KG/Day) of these materials to pregnant rats during gestation produced maternal and fetal toxicity. Increased respirations were observed at doses of 30 MG/KG/Day and above.

Summary of health effect data on components:

This product contains 0.8% 4-6- numbered condensed ring polynuclear aromatic hydrocarbons (PAHs). Some PAHs such as benzo(a)phenanthrene, benz(a)anthracene, and benzo(j,k)fluorene have been shown to be carcinogenic in experimental animals. An increased risk of cancer has been observed. In workers employed in the aluminum production, coal gasification, coal-tar pitch, coke production and iron and steel industries that had been occupationally exposed to polynuclear aromatic hydrocarbons. Since these kinds of PAHs have been measured at high levels in air samples taken in these industries, IARC has concluded that these PAHs are probably carcinogenic to humans.

XII. Ecological Information

Material can foul shoreline and be toxic to aquatic life.

XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental protection restrictions.

Contaminated product, soil, water, container residues and spill cleanup materials should not be designated as hazardous wastes.

Empty Container Precautions: Recondition or dispose of empty container in accordance with governmental regulations. Empty containers retain product residue; observe all precautions for product. Do not heat or cut with electric or gas torch.

Empty Container Precautions: Empty containers retain product residue (liquid and/or vapor,) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids. Avoid flame-outs. Ensure that emissions comply with applicable regulations. Aqueous wastes may not biodegrade.

XIV. Transport Information

UN/NA ID No. Not regulated

Transportation Emergency Telephone Number: Chemtrec: 0011-1-(703) 527-3887(International Emergencies)
1-800-424-9300 (Chemtrec, U.S.)

DOT hazard Class Not regulated

Proper shipping name Not regulated

XV. Regulatory Information

TSCA Toxic Substances Control Act Chemical Substance Inventory: All components of this product are listed on the TSCA inventory.

CERCLA (Comprehensive Response, Compensation, and Liability Act): Under CERCLA, certain releases to air, land, or water may be reportable to the National Response Center at (800) 424-8802. Circumstances surrounding the release and cleanup determine reportability. This product is subject to CERCLA reporting requirements.

SARA 313 Information: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Concentration</u> |
|-------------------------|-------------------|----------------------|
| Aromatic Amine Catalyst | 108-45-2 | <1.3% |

PROPOSITION 65 (California Safe Drinking Water & Toxic Enforcement Act of 1986): Based on information currently available, this product contains chemicals showing limited evidence for carcinogenicity in people and/or sufficient evidence in animals.

XVI. Other Information

For Your Protection: Arnco warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Liability of Arnco for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with the proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.

MSDS Revision Information:

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|----------------|-----------------|
| Prepared by: | Arnco |
| Revision date: | September, 2011 |
| MSDS/Rev. No.: | AB-A/02 |