

MATERIAL SAFETY DATA SHEET

CURED POLYURETHANE ELASTOMER

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PRODUCT IDENTIFICATION

TRADE NAME: CURED POLYURETHANE ELASTOMER

CHEMICAL IDENTITY:
Polyurethane elastomer.

CAS No:
Not applicable.

USES:
Manufactured article.

MANUFACTURER / SUPPLIER:

EMERGENCY PHONE NUMBERS:

HAZARDOUS INGREDIENTS

	CAS No.	ACGIH TLV (2003)		% (w/w)
		TWA	STEL	
Not applicable.				

Note: Consult local authorities for acceptable provincial exposure limits.

PHYSICAL DATA

PHYSICAL STATE: Solid.

BOILING POINT: Not applicable.

FREEZING POINT: Melts @ 190-230°C.

SPECIFIC GRAVITY (H₂O=1): 1.05 - 1.26

VAPOUR DENSITY (AIR=1): Not applicable.

SOLUBILITY IN WATER (% wt.): Insoluble.

OTHER SOLUBILITY: Not available.

APPEARANCE: Solid moulded parts or sheets.

ODOUR: Slight to odourless.

COEFFICIENT OF WATER / OIL DISTRIBUTION: Not applicable.

ODOUR THRESHOLD: Not available.

VAPOUR PRESSURE: Not applicable.

% VOLATILE: Not applicable.

EVAPORATION RATE: Not applicable.

pH: Not applicable.

HEALTH HAZARD INFORMATION

ROUTE(S) OF EXPOSURE:

Inhalation of dust or fume from finishing processes.

EFFECTS OF ACUTE EXPOSURE:

There are no toxicology data on this material, however, like similar high molecular weight polymers, it is expected to exhibit no significant acute toxicity. Dust or fume from finishing operations (e.g. grinding, cutting, welding) may be irritating to the eyes and respiratory tract. The fume may also contain traces of isocyanate (e.g. TDI, MDI, HMDI, PPDI) depending on the type of isocyanate used in the elastomer formulation. Inhalation of fume containing isocyanate may cause respiratory sensitization, which can result in an allergic-like respiratory reaction characterized by coughing, shortness of breath and difficulty breathing.

ANIMAL DATA:

Oral LD ₅₀ (Rat):	Not available.
Dermal LD ₅₀ (Rabbit):	Not available.
Inhalation LC ₅₀ (Rat):	Not available.
Eye Irritation (Rabbit):	Not available.
Skin Irritation (Rabbit):	Not available.
Skin Sensitization (Guinea Pig):	Not available.

CHRONIC: Not available.

CARCINOGENICITY: ACGIH: Not applicable. IARC: Not applicable.

TERATOGENICITY / REPRODUCTIVE EFFECTS: Not available.

MUTAGENICITY: Not available.

TOXICOLOGICALLY SYNERGISTIC MATERIALS: Not available.

FIRST AID

EYES: Flush with plenty of water for at least 15 minutes. Get medical attention if necessary.

SKIN: Wash thoroughly with soap and water.

INHALATION: Remove to fresh air. Get medical attention if necessary.

INGESTION: It should not be necessary to induce vomiting. Contact physician.

FIRE AND EXPLOSION

FLASH POINT (method):	Not available.
FLAMMABLE LIMITS IN AIR (% by volume):	Not available.
AUTOIGNITION TEMPERATURE:	Not available.
EXTINGUISHING MEDIA:	Water spray/fog, foam, carbon dioxide (CO ₂), dry chemical.

SPECIAL FIRE FIGHTING EQUIPMENT AND PROCEDURES:

Firefighters should wear self-contained breathing apparatus to prevent inhalation of combustion products.

EXPLOSION DATA:

Sensitivity to mechanical impact:	Not available.
Sensitivity to static discharge:	Not available.

REACTIVITY DATA

STABILITY:	Stable at ambient temperatures and pressures.
HAZARDOUS POLYMERIZATION:	Will not occur.
INCOMPATIBILITY:	Strong acids or alkalis, moisture in the presence of high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion produces fume consisting of organic particulate, gaseous hydrocarbons, oxides of carbon and nitrogen. The fume may also contain isocyanates (e.g. TDI, MDI, HMDI, PPDI), hydrogen cyanide and acrolein. Other toxic substances may be formed if additives such as pigments, plasticizers and flame retardants are present in the cured elastomer.

PREVENTIVE MEASURES

STORAGE AND HANDLING:

Store at room temperature away from direct heat and moisture. Local exhaust recommended for finishing operations that generate dust or fume. Use personal protective equipment to prevent inhalation and eye contact if dust or fume is generated.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Pick up and handle as any other inert solid material. Sweep or vacuum up dust generated from finishing operations. Put into containers for disposal.

ENVIRONMENTAL TOXICITY DATA:

Environmental effects have not been determined.

WASTE DISPOSAL METHOD:

Cured polyurethane elastomer is not a hazardous material. Dispose of in accordance with local, provincial and federal regulations.

PREVENTIVE MEASURES (CONTINUED)

RESPIRATORY PROTECTION: None normally required. Use NIOSH approved for particulate (dust, fume) and/or organic vapours if generated during finishing operations.

PROTECTIVE GLOVES: None normally required.

EYE PROTECTION: Safety glasses with side shields or goggles are recommended for use during finishing operations.

VENTILATION: Local exhaust recommended for finishing operations in which dust or fume is generated. Use respiratory protection in the absence of adequate ventilation.

OTHER: Emergency eye wash and shower.

REGULATORY INFORMATION

WHMIS CLASSIFICATION:

Items made of cured polyurethane elastomers are considered to be manufactured articles and are thus exempt from the requirements of WHMIS.

TDG CLASSIFICATION:

Not regulated.

DOMESTIC SUBSTANCES LIST (DSL):

Items made of cured polyurethane elastomers are considered to be manufactured articles and are thus excluded from the DSL.

PREPARATION INFORMATION

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PREPARED BY:

MSDS CODE: PU3470E

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