

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

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**Emergency Number:** 651-430-2270

**Product Name: Bonduit® Hardener  
Part B Reusable Cartridge Package**

**Chemical Description:** Adhesive Hardener: Off-white Gel  
**Product Use:** Connecting Dissimilar Materials  
**Date Reviewed:** 16 November 2007  
**Reviewed By:** S. H. Dahlke

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS #</u>	<u>Weight %</u>
Polymercaptan Curing Agent	Proprietary	40 - 50
2,4,6-Tris (Dimethylaminomethyl) Phenol	90-72-2	5 - 10

## 3. HAZARDS IDENTIFICATION

	<u>NFPA</u>		<u>Key</u>
Health	2	0-minimal	3-serious
Flammability	1	1-slight	4-severe
Reactivity	0	2-moderate	

### **Emergency Overview:**

CAUTION: Eye and skin irritant. In case of eye contact, flush eyes with water. Wear gloves and safety glasses. Avoid contact with skin. Use with adequate ventilation. Do not ingest. Keep out of reach of children.

## 4. FIRST AID MEASURES

<b>Eye Contact:</b>	If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.
<b>Skin Contact:</b>	Remove contaminated clothing; flush skin thoroughly with water. If irritation continues, seek medical attention.
<b>Inhalation (Breathing):</b>	If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.
<b>Ingestion (Swallowing):</b>	Drink one or two glasses of milk or water. Do not induce vomiting. If victim is unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point:</b>	>100°C (PMCC)
<b>Flammable Limits:</b>	Not Available
<b>Autoignition Temperature:</b>	Not Available
<b>Hazardous Combustion Products:</b>	Oxides of carbon, oxides of sulfur, oxides of nitrogen.
<b>Extinguishing Media:</b>	Water Fog, Carbon Dioxide, Dry Chemical or Foam

**Special Precautions:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire-exposed container to prevent pressure build-up and possible auto-ignition or rupture.

**Unusual Hazards:** Toxic smoke and vapors may form during combustion.

## 6. ACCIDENTAL RELEASE MEASURES

Major spill unlikely with small package. Residual resin may be removed using steam or hot soapy water. Dispose of according to local and federal regulations. Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

## 7. HANDLING AND STORAGE

Keep cartridge tightly closed. Reseal cartridge after use. Avoid contact with skin, eyes, or clothing. Uncured Bonduit® Hardener Part B is a skin irritant. Use good personal hygiene practice. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame operations (i.e. torches used to install heat shrink products) on or near cured product. Keep containers cool, dark, dry, and away from sources of ignition. All cartridges should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** None required with proper ventilation.

**Protective Gloves:** The use of impervious gloves is recommended to prevent skin contact.

**Eye Protection:** Eye protection is recommended especially if the material is used in ways where it could contact the eyes.

**Other Protective Equipment:** Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

**Exposure Limits and Recommendations:** TLV values for components have not been determined by OSHA/ACGIH.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Thin white to yellow paste; unpleasant, slight sulfur, pungent odor

**Odor Threshold:** Not Available

**Vapor Density (Air = 1):** Not Available

**Specific Gravity (H<sub>2</sub>O = 1):** <2

**Solubility in Water:** Negligible

**VOC Content:** Not Applicable

**Boiling Point:** Not Applicable

**Freezing Point:** Not Applicable

**Evaporation Rate:** Not Applicable

**Vapor Pressure:** << 1 mm Hg @ 20°C

**Coefficient of Water/Oil Distribution:** Not Available

**pH:** Not Applicable

**Percent Volatiles (Weight):** 0%

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** Open flame and extreme heat.

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Oxides of carbon, oxides of sulfur, oxides of nitrogen.

**Conditions Under Which Hazardous Polymerization May Occur:** When Sealant Hardener (Part B) is mixed with Sealant Resin (Part A), heat is generated. Use caution if combining and mixing more than one single-use package.

**11. TOXICOLOGICAL INFORMATION**

<b>Eye Contact:</b>	Direct eye contact with material or vapors may cause severe eye irritation.	
<b>Skin Contact:</b>	May cause severe skin irritation, especially on prolonged contact.	
<b>Irritation and Sensitization Potential:</b>	Prolonged or repeated skin exposure may cause skin sensitization.	
<b>Inhalation (Breathing):</b>	Excess vapor exposure may cause irritation of the nose and throat. Prolonged exposure may cause delayed lung injury and chemical pneumonia.	
<b>Ingestion (Swallowing):</b>	Material is considered slightly toxic. Ingestion may cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea.	
<b>Oral Toxicity:</b>	Tri(dimethylaminomethyl)phenol	LD <sub>50</sub> (oral rat) 1200 mg/kg
<b>Chronic Exposure:</b>	Not Available.	
<b>Carcinogenic Status:</b>	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.	
<b>Reproductive Toxicity:</b>	Not Available	
<b>Mutagenicity:</b>	Not Available	
<b>Teratogenicity:</b>	Not Available	
<b>Toxicologically Synergistic Products:</b>	Not Available	

**12. ECOLOGICAL INFORMATION**

<b>Mobility:</b>	No information available.
<b>Bioaccumulation:</b>	No information available.
<b>Ecotoxicity:</b>	No information available.

**13. DISPOSAL CONSIDERATIONS**

Dispose of product in accordance with national and local regulations.

**14. TRANSPORTATION INFORMATION**

<b>Transport Canada-Product Identification Number:</b>	Not Regulated
<b>UN Number:</b>	Not Listed
<b>Hazard Warning Label:</b>	Not Applicable

**15. REGULATORY INFORMATION**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

<b>WHMIS Classification</b>	Class D, Division 2B
<b>Canadian DSL</b>	All ingredients listed.
<b>United States TSCA</b>	All ingredients listed.

**16. OTHER INFORMATION**

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.