

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

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

**Product Name: BonDuit® Resin  
Part A Reusable Cartridge  
Package**

**Chemical Description:** Adhesive Resin  
**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>
Bisphenol A Diglycidyl Ether	25036-25-3	80 - 90

## 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

### **Eye Contact:**

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.

### **Skin Contact:**

Remove contaminated clothing; flush skin thoroughly with soap and water. If irritation occurs, seek medical attention.

### **Inhalation (Breathing):**

If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.

### **Ingestion (Swallowing):**

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

### **Flash Point:**

>200°C (PMCC)

### **Flammable Limits:**

Not Available

### **Autoignition Temperature:**

Not Available

### **Hazardous Combustion**

When heated to decomposition it emits carbon monoxide and other fumes and vapors varying in composition and toxicity.

### **Products:**

Water Fog, Carbon Dioxide, Dry Chemical or Foam

### **Extinguishing Media:**

### **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:** Heating above 150°C in the presence of air may cause slow oxidative decomposition and above 260°C may cause polymerization.

## 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. Keep cartridge cool, dark, dry, and away from sources of ignition. Protect from freezing. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All cartridges should be disposed of in an environmentally safe manner and in accordance with governmental regulations. 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** None required for normal handling temperatures and conditions.  
**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, black paste.  
**Odor Threshold:** Not Available  
**Vapor Density (Air = 1):** >1  
**Specific Gravity (H<sub>2</sub>O = 1):** <2.0  
**Solubility in Water:** Negligible  
**VOC Content** None  
**Boiling Point:** Not Applicable  
**Freezing Point:** Not Applicable  
**Evaporation Rate:** Not Applicable  
**Vapor Pressure:** Not Applicable  
**Coefficient of Water/Oil Distribution:** Not Available  
**pH:** Not Applicable  
**Percent Volatiles (Weight):** 0%

## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions to Avoid:** Avoid heat, flame, sources of ignition.  
**Materials to Avoid:** Strong acids or bases (especially primary or secondary aliphatic amines), strong oxidizing agents.  
**Hazardous Decomposition Products:** CO<sub>2</sub>, CO, aldehydes, acids and other organic substances may be formed during combustion or elevated temperature (>260°C) degradation.  
**Conditions Under Which Hazardous Polymerization May Occur:** When Adhesive Resin (Part A) is mixed with Adhesive Hardener (Part B), 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 eye irritation. Contact at elevated temperatures may cause thermal burns.
<b>Skin Contact:</b>	<b>Moderate irritant.</b> Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.
<b>Irritation and Sensitization Potential:</b>	Prolonged or repeated skin exposure may cause skin sensitization.
<b>Inhalation (Breathing):</b>	Low vapor pressure makes this route of exposure unlikely.
<b>Ingestion (Swallowing):</b>	Material has a low level of oral toxicity. Ingestion may cause irritation of the gastrointestinal tract.
<b>Oral Toxicity:</b>	Glycidyl ethers of bisphenol A resins                      LD <sub>50</sub> (oral rat) 11400 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.