

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

PRODUCT NAME: Probuild Resin

CHEMICAL NAME: Bisphenol A Epoxy Resin Blend

MANUFACTURER: CASS POLYMERS OF MICHIGAN, INC.  
815 WEST SHEPHERD STREET  
CHARLOTTE MI 48813 USA

INFORMATION PHONE: (248) 588-2270

EMERGENCY PHONE: (703) 527-3887(Call Collect)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Materials Information System (United States)

Health	2
Flammability	1
Physical Hazard	0

Hazard Codes: \*=Chronic Hazard 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard

### Material Composition

Component	CAS.NO	EINECS/ELINCS No.	Percent
Reaction Product of Bisphenol-A and Epichlorhydrin	25068-38-6	Polymer	90% - 100%

Hazardous Materials are listed if present in concentrations of 1.0% or higher. Materials posing a possible Chronic Health Risk are listed at concentrations of 0.1% or higher. Materials listed in section 2 are not necessarily hazardous. See section 8-Exposure Controls/Personal Protection, and section 11-Toxicological Information for complete hazard/exposure limit information

## 3. HAZARDS IDENTIFICATION

\*\*\*\*Emergency Overview\*\*\*\*

Moderate skin irritant. Mild eye irritant. Moderate respiratory tract irritant. May cause skin sensitization.

EC Classification(s): Xi- Irritant; N- Hazardous for the Environment

EC Risk Phrases: R36/38 Irritating to eyes and skin

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

(See Section 15-REGULATORY INFORMATION for complete text of risk phrases.)

### ROUTES OF EXPOSURE

Eye Contact

Skin Contact

Ingestion

### EXPOSURE STANDARDS

See section 8-Exposure Controls/Personal Protection, and section 11-Toxicological Information for complete hazard/exposure limit information

### HEALTH HAZARDS

Moderate skin irritant.

Mild eye irritant.

Mild respiratory tract irritant.

May cause skin sensitization.

### TARGET ORGANS

Skin

### SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Contact with eyes may cause mild irritation and discomfort. Contact with skin causes irritation, redness and discomfort which is transient. Inhalation of mists may cause irritation in the respiratory tract. Inhalation of vapors from heated materials may cause irritation in the respiratory tract. Coughing and chest pain may result.

### SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in: adverse skin effects (such as rash, irritation or corrosion).

#### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Skin disorders and Allergies

#### **CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC, OTHER**

This product contains no known or suspected carcinogens in concentrations of 0.1 percent or greater.

### **4. FIRST AID MEASURES**

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation:

Move effected persons to fresh air; if effects occur, consult a physician.

Skin Contact:

Continued and thorough washing in flowing water for at least 15 minutes is imperative while removing contaminated clothing.

Prompt medical consultation is essential. Wash clothing before reuse. Destroy contaminated leather items.

Eye Contact:

Wash immediately and continuously with flowing water for at least 15 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.

Ingestion:

If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by a physician or medical personnel. Do not give anything by mouth to an unconscious person.

Note to Physician:

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### **5. FIRE FIGHTING PRECAUTIONS**

Extinguishing Media:

Water fog or fine spray. Carbon dioxide. Alcohol resistant foam. Dry chemical fire extinguishers.

Hazardous Combustion Products:

May generate toxic or irritating combustion products. Sudden reaction and fire may occur if product is mixed with an oxidizing agent.

Protection of Firefighters:

Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves.)

### **6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions:

Wear adequate personal protective equipment; see Section 8-EXPOSURE CONTROLS/PERSONAL PROTECTION.

Methods of Cleaning Up:

Large spills: Contain with dike. Pump into suitable and properly labeled containers.

Small spills: Dilute with water and recover or use non-combustible absorbent material/sand and shovel into appropriate containers.

### **7. HANDLING AND STORAGE**

#### **STORAGE**

Keep away from: oxidizers. Keep in cool, dry, ventilated storage areas and in closed containers.

#### **HANDLING**

Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling, do not eat, drink, or smoke.

#### **OTHER PRECAUTIONS**

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA).

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Hazardous Component Control Parameters –**

Component	CAS. No.	EINECS	Percent	Exposure Limits	Source
-----------	----------	--------	---------	-----------------	--------

-No Data Available-

#### **EYE PROTECTION**

Chemical safety glasses. A full-face shield and vapor respirator is recommended for operations involving spraying or other operations placing this material under pressurized conditions.

**HAND PROTECTION**

Neoprene rubber gloves. Impermeable gloves. Nitrile rubber gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

**RESPIRATORY PROTECTION**

Not required under normal conditions and in a well-ventilated workplace. At elevated temperatures, a cartridge mask National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors may be appropriate

**PROTECTIVE CLOTHING**

Long sleeved clothing.

**ENGINEERING CONTROLS**

No specific controls needed.

**WORK AND HYGIENIC PRACTICES**

Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance :	Viscous Liquid
Color:	Clear to Amber
Odor:	Epoxy Odor
Specific gravity :	1.10 - 1.18
Vapor pressure:	Not Determined
Boiling point/range :	Not Determined
Freezing point/range :	Not Determined
Water solubility :	Liquid Components are Not Readily Soluble in Water
pH :	Not Determined
Flash point :	Not Determined
Auto-ignition temp. :	>300 deg.C
Flammability-LFL :	Not Determined
Flammability-UFL :	Not Determined
VOC Content:	0 g/L (0%)

**10. STABILITY AND REACTIVITY****CHEMICAL STABILITY**

Stable

**CONDITIONS TO AVOID (if unstable)**

Not applicable

**INCOMPATIBILITY (Materials to Avoid)**

Oxidizing Agents (i.e. perchlorates, nitrates etc.). Sodium or Calcium Hypochlorite. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

**HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials).**

Carbon Monoxide in a fire. Carbon Dioxide in a fire. Irritating and toxic fumes at elevated temperatures.

**HAZARDOUS POLYMERIZATION**

Will not occur

**CONDITIONS TO AVOID (if polymerization may occur)**

Not applicable

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

This finished product has not been tested to determine individual toxicological/ecological limits. Individual components of this mixture have been independently tested by the raw material manufacturers and any known results have been presented below. The results for the individual components may not be representative of the toxicity of this finished product.

Ingredient Name	CAS No.	%	Test	Result	Route	Species
-No Further Data Available- Ingestion						
This material has a low potential for toxic effects due to ingestion.						
Skin Contact						

Prolonged or widespread skin contact is not likely to cause toxic effects.

**Irritation****Skin:**

Skin contact has caused allergic skin reactions in certain sensitized individuals.

**Eyes:**

May cause slight temporary eye irritation with local redness. Mechanical irritation possible due to solid filler materials.

**Inhalation:**

May cause allergic respiratory response upon exposure to heated vapors.

**Chronic Exposure****Carcinogen:**

This material contains no known or suspected carcinogens in levels above 0.1%

**Mutagen:**

This material contains no known or suspected mutagens in levels above 0.1%

**Reproductive Hazard:**

This material contains no materials known or suspected to cause reproductive hazards in levels above 0.1%.

---

**12. ECOLOGICAL INFORMATION****Persistence/Degradability:**

This material contains components that show little or no evidence of biodegradability. Caution should be taken to prevent release to the environment. See Section 13 for further information.

**Degradation:**

Based on the stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

**Aquatic Toxicity:**

Diglycidyl Ether of Bisphenol-A (DGEBA) resins are toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in most sensitive species). However, DGEBA is insoluble in water under most conditions.

Individual components of this mixture have been independently tested by the raw material suppliers and any known information has been presented above. The results for the individual components may not be representative of the ecological toxicity of this finished product. Caution should be taken to prevent release to the environment. See Section 13 for further information.

---

**13. DISPOSAL CONSIDERATIONS****Disposal:**

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or watercourses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely landfilled.

**Contaminated packaging:**

Empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Hazard warning labels should be removed from the container only after it has been properly emptied.

---

**14. TRANSPORT INFORMATION**SHIPPING INFORMATION

Shipping Name:	Not Regulated
UN Code:	N/A
Class:	Not Regulated
Packing Group:	Not Regulated

---

**15. REGULATORY INFORMATION****US FEDERAL REGULATIONS****TOXIC SUBSTANCES CONTROL ACT (TSCA)-**

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**TOXIC SUBSTANCE CONTROL ACT (TSCA) 12(b) COMPONENT(S)**

None

**OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)**

Irritant. Sensitizer.

**EPA SARA Title III Section 312 (40CFR370) hazard class**

Immediate Health Hazard. Delayed Health Hazard.

**EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are**

#### STATE REGULATIONS

**PROPOSITION 65 SUBSTANCES (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986")**

None

#### CANADA

##### DSL

Included on Inventory.

##### WHMIS HAZARD CLASSIFICATION

Class D Division 2B

##### HAZARDOUS PRODUCTS ACT INFORMATION:

This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

##### WHMIS TRADE SECRET REGISTRY NUMBER(S)

**This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**

None

##### WHMIS SYMBOLS



---

#### EUROPEAN ECONOMIC COMMUNITY (EEC)

##### EINECS/ELINCS MASTER INVENTORY

Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

##### EINECS Status:

All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in Compliance with Council Directive 67/548/EEC and its amendments. CHIP3 Regulations have been applied and meets all requirements.

Hazard symbol(s):

Xi

N



EU Labeling Classification: Xi-Irritant; N- Dangerous for the Environment

##### Risk Phrases:

R36/38 Irritating to eyes and skin  
R43 May cause sensitization by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

##### Safety Phrases:

S24 Avoid contact with skin.  
S28 After contact with skin, wash immediately with plenty of water and soap  
S37/39 Wear suitable gloves and eye/face protection.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheet.

---

## 16. OTHER INFORMATION

### Definitions:

ACGIH: American Conference of Government Industrial Hygienists

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

TLV: Threshold Limit Value

TWA: Time-Weighted Average

LD50: Lethal Dose (50%)-The minimum dose required for lethal effects in 50% of a given population of test specimens.

LC50: Lethal Concentration (50%)- The minimum concentration required for lethal effects in 50% of a given population of test specimens

NIOSH: National Institute for Occupational Safety and Health

WHMIS: Workplace Hazardous Material Information System

DSL: Domestic Substances List

---

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of any material is the sole responsibility of the users. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

---