

## 1. Product and company identification

Product Name Pro-Bonder – Part A

Internal Code 260110, 260130

Product Type Epoxy Resin

Product Use Civil Engineering Resin System

Manufacturer/Supplier Prospec Specialties Inc.

Suite 400, 3601, Highway 7,

Markham ON, L3R OM3,

CANADA

info@prospecspecialties.com

Revision Date 27-NOV-2012

Telephone For 24-Hour Emergency Response Information

Call Tel: (888) 749-8456 (Canada)

#### 2. Hazards identification

Product Form Viscous off-white liquid

OSHA/HCS status This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Emergency Overview WARNING!

MAY CAUSE EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN

REACTION. MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential acute health effects

Inhalation Heating of the product may generate vapors that could cause nausea,

dizziness and respiratory tract irritation.

Ingestion Not expected to be a relevant route of exposure. Product contains

trace amounts of materials that may be slightly toxic.

Skin May cause moderate irritation. May cause allergic skin reaction in

individuals with prior sensitization.

Eyes May cause eye irritation.

Potential chronic health effects

Chronic effects No known significant effects or critical hazards.

Carcinogenicity This product contains Titanium Dioxide (CAS # 13463-67-7) which is

classified as possibly carcinogenic to humans by IARC (IARC Group 2B)

Developmental effects 
No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.



Target organs Review Section 2 and 11 for any additional assessments.

Over-exposure signs/symptoms

Inhalation Respiratory tract irritation, coughing.

Ingestion No specific data.

Skin Irritation, redness.

Eyes Pain and/or irritation, redness, watering eyes.

Medical conditions

Pre-existing skin disorders may be aggravated by over-exposure to this product.

aggravated by over-exposure

See section 11 for more detailed information on health effects and symptoms.

## 3. Composition/Information on ingredients

Ingredient name	CAS number	<u>WT%</u>
4, 4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	30 – 55%
Calcium Carbonate	1317-65-3	15 – 30%
Kaolin	1332-58-7	15 – 30%
Titanium Dioxide	13463-67-7	< 3%

#### 4. First aid measures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Check for and remove

any contact lenses. Get medical attention.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Get medical attention. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Inhalation Move exposed person to fresh air. Keep person warm and at rest. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

collar, tie, belt or waistband.

Ingestion Wash out mouth with water. Remove dentures if any. Move exposed

person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to



do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Notes to physician No specific treatment. Treat symptomatically. Contact poison

treatment specialist immediately if large quantities have been ingested

or inhaled.

## 5. Fire-fighting measures

the product

Flammability properties of Flash Point: >302°F (>150°C) Flash Point Method Used: PMCC

> Flammable Limits in Air (Lower - % by volume): N/A Flammable Limits in Air (Upper - % by volume): N/A

Extinguishing media

Suitable

Use Water Fog, Foam, Dry Chemical or Carbon Dioxide (CO2)

Not suitable None known.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of

the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training.

Hazardous combustion

products

Carbon monoxide, carbon dioxide.

Unusual Fire and **Explosion Hazards**  Sealed, fire-exposed containers may build up dangerous pressure,

potentially resulting in explosive rupture.

Special protective

Fire-fighters should wear appropriate protective equipment Wear equipment for fire-fighters self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure

to vapors or products of combustion exists.

### 6. Accidental release measures

Personal precautions No action shall be taken involving any personal risk or without suitable

> training. Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to mist is likely to exceed acceptable limits. Put on

appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).



Use the proper personal protection equipment. Shut off source of leak Spill Response

if it is safe to do so. Dike spill. Absorb with inert material and dispose

of properly.

## 7. Handling and storage

Put on appropriate personal protective equipment (see section 8). Handling

> Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate

ventilation. Wash thoroughly after handling.

Storage Keep in the original container or an approved alternative made from a

compatible material, kept tightly closed when not in use. Store in

accordance with all local and government regulations.

#### 8. Exposure controls/personal protection

	CAS Number Chemical Identity		Exposure Limits				
CAS Number			ACGIH		OSHA		NIOSH
			TWA	STEL	PEL	STEL	NIOSH
25068-38-6	4,4'-Isopropylidene	ediphenol Epichlorohydrin	N.E.	N.E.	N.E.	N.E.	N.E.
	Copolymer						
1317-65-3	Calcium Carbonate	(Total Dust)	N.E.	N.E.	15 mg/m3 TWA	N.E.	10 mg/m3 TWA
		(Respirable Fraction)	N.E	N.E.	5 mg/m3 TWA	N.E.	5 mg/m3 TWA
1332-58-7	Kaolin	(Total Dust)	N.E.	N.E.	15 mg/m3 TWA	N.E.	N.E.
		(Respirable Fraction)	2 mg/m3 TWA	N.E.	5 mg/m3 TWA	N.E.	N.E.
13463-67-7	Titanium Dioxide	(Total Dust)	10 mg/m3 TWA	N.E.	15 mg/m3 TWA	N.E.	N.E.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are located in the work area.

Respiratory

Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



Eyes Safety glasses with side-shields or chemical splash goggles are

recommended.

Skin Impervious gloves should be used. Personal protective equipment for

the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product.

### 9. Physical and chemical properties

Form Viscous Liquid
Color Off-White
pH Not determined
Boiling point >150°C (>302°F)
Freezing Point <2°C (<36°F)

Specific gravity 1.46

Vapor pressure Not determined Odor threshold Slight, sweet odor

Solubility in water Negligible
Evaporation rate Not Determined
Vapor density Not Determined

#### 10. Stability and reactivity

Stability The product is stable.

Under normal conditions of storage and use, hazardous polymerization

will not occur.

Conditions to avoid Contact with strong oxidizers or acids. Extremes of temperature and

direct sunlight. Exposure to water vapor.

Materials to avoid Reactive or incompatible with the following materials: Strong oxidizing

agents, strong acids, strong alkalis.

Other hazards Reacts with considerable heat release with some curing agents.

Hazardous decomposition [

products Corbon money

products

Decomposition products may include the following materials:

Carbon monoxide and/or carbon dioxide.

## 11. Toxicological information

Acute toxicity

LD50 Oral Rat > 500 mg/kg
LD50 Dermal Rabbit > 1,200 mg/kg
LC50 Inhalation Not Determined

## Carcinogenicity Classification

Ingredient name

Titanium Dioxide (CAS # 13463-67-7)



IARC Group 2B (Possibly carcinogenic to humans)

NTP Not listed

OSHA Not regulated as a carcinogen

EU Not classified

#### 12. Ecological information

#### **Environmental effects**

No known significant effects or critical hazards.

#### Other adverse effects

No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal The generation of waste should be avoided or minimized wherever

possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

sewers.

# 14. Transport information

The data provided in this section is for information only and may not be specific to each package size or mode of transport. Apply the appropriate regulations to properly classify your shipment for transportation.

# International transport regulations

Regulatory	UN/NA	Proper shipping name	Classes/*PG	Reportable
Information	number			Quantity (RQ)
CFR	N/A	Not Dangerous Goods	N/A	N/A
TDG	N/A	Not Dangerous Goods	N/A	N/A
IMO/IMDG	N/A	Not Dangerous Goods	N/A	N/A
IATA (Cargo)	N/A	Not Dangerous Goods	N/A	N/A

<sup>\*</sup>PG: Packing group

### 15. Regulatory information

#### **US** regulations

HCS Classification When used for its intended purpose, this material is classified as

hazardous in accordance with OSHA 29CFR 1910.1200.

Irritating material, Sensitizing material

U.S. Federal SARA Title III, Section 311/312 Classification

regulations Immediate (Acute) health hazard

Delayed (Chronic) health hazard



SARA Title III, Section 313 - Supplier Notification

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier

Notification Requirement of 40 CFR Part 372. No chemicals present above the de minimus limit.

SARA Section 302 Extremely Hazardous Substances

None required.

State regulations

Massachusetts RTK Substances Calcium Carbonate (CAS # 1317-65-3)

Minnesota RTK Substances

Calcium Carbonate (CAS # 1317-65-3)

New Jersey RTK Hazardous Substances

None

Pennsylvania RTK Hazardous Substances

Calcium Carbonate (CAS # 1317-65-3)

California Prop. 65: WARNING: This product contains the following

chemical(s) known to the State of California to cause cancer:

Epichlorohydrin (CAS # 106-89-8)

Oxirane, (phenoxymethyl) - (CAS # 122-60-1)

California Prop. 65: WARNING: This product contains the following chemical(s) known to the State of California to be a reproductive

toxin:

Epichlorohydrin (CAS # 106-89-8)

**Canada** 

WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists Canadian NPRI: None required.

International regulations

Chemical inventories

Europe inventory - All components are listed or exempted

Australia inventory (AICS) - All components are listed or exempted.

Canada inventory - All components are listed or exempted

Japan inventory - Not determined

China inventory (IECSC) - All components are listed or exempted.

Korea inventory - All components are listed or exempted.

Philippines inventory (PICCS) - Not determined.

United States inventory (TSCA 8b) - All components are listed or

exempted.

16. Other information

Hazardous Material Information System III

(U.S.A.)

Health: 2 Flammability: 1 Physical hazards: 0 Personal Protection: X



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. HMIS® ratings are to be used with a fully implemented HMIS® program.

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