



**Material Safety Data Sheet  
ZeraBraze PART A**

**PRODUCT INFORMATION**

Manufacturer: Zeraus Products Inc.  
250 Rayette Road, Unit 18  
Vaughan, Ontario L4K 2G6

**PRODUCT INFORMATION**

Product Identifier: ZeraBraze Part A

Application and Use: General Purpose Epoxy Paint

Product Description: Two component Epoxy Coating (solvent-based epoxy resin blends)

**HAZARD RATING SYSTEM (USA):**

Health: 1

Flammability: 3

Reactivity: 0

WHMIS Classification (Canada):

Class D, Division 2, Subdivision A + B, Class B2.

**TRANSPORTATION OF DANGEROUS GOODS INFORMATION:**

Flammable Liquid, NOS (1-methoxy-2-propanol)

Hazard Class: 3

ID Number: UN 3092

Packing Group: III

**EMERGENCY TELEPHONE NUMBERS**

Business: (905) 761-9920

24 Hours: (416) 574-5154

**LABEL PRECAUTIONS**

**FLAMMABLE. HARMFUL IF INHALED. CAUSES IRRITATION TO EYE, SKIN & RESPIRATORY SYSTEM.**

**Keep away from heat, sparks and flame.**

**Keep container closed.**

**Wash thoroughly after handling**

**Avoid breathing vapours**

**Avoid contact with eyes, skin and clothing**

**Keep away from children**

**Do not dispose down the drains**

**HAZARDOUS INGREDIENTS**

<b>Ingredients</b>	<b>CAS#</b>	<b>%(weight)</b>	<b>LD/50 Route/Species</b>	
Diglycidyl Ether of Bisphenol-A	25068-38-6	15-40	LD50-30g/kg(Rat-Oral)	LC50-N/A
4-Nonyl Phenol (Branched)	84852-15-3	1-3	LD50->5g/kg (Rat-Oral)	LC50-N/A
Glycidyl Ether of Castor Oil	74398-71-3	1-5	LD50->5g/kg (Rat-Oral)	LC50-N/A

**PHYSICAL DATA**

Physical State: Liquid

Specific Gravity: 1.4 @23°C (73°F)

Viscosity:1000 cps @ 23°C (73°F)

Solubility in Water: Insoluble

Boiling Point: n/av

Freezing/Melting Point: n/av

Vapour Density: n/av

Evaporation Rate: n/av

Volatile: (voc): 15 %

Odour: Odour: Ether-like odour

Appearance: coloured liquid paint

Hazardous Air Pollutants: None

**POTENTIAL HEALTH EFFECTS****Effect of Overexposure:**

**INHALATION:** May cause respiratory tract irritation. Inhalation of high concentration may cause central nervous system effects characterized by headache, dizziness and unconsciousness.

**EYES:** Produces irritation, characterized by a burning sensation, redness, tearing, inflammation.

**SKIN:** May cause minor irritation with itching and possible slight local redness. Prolonged contact may cause skin sensitization, an allergic reaction. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.

**INGESTION:** Swallowing large quantity may cause gastrointestinal irritation, vomiting and diarrhea. May cause dizziness, drowsiness, and nausea.

**Toxic effects or reproduction: No**

**Teratogenicity: No**

**Mutagenicity: No**

**Carcinogenicity: No**

Acute or chronic exposure should be avoided as it will increase the toxicological problems mentioned in this section and may aggravate respiratory problems. Repeated skin contact may cause a persistent irritation or dermatitis. Repeated inhalation may cause lung damage.

**FIRST AID MEASURES****Emergency procedures:**

**INHALATION:** In the case of overexposure, remove to fresh air. Get medical attention if the victim is in respiratory distress.

**EYE CONTACT:** Flush eyes immediately with large amounts of running water for at least 15 minutes while holding eyelids open until irritation subsides. Obtain medical attention immediately.

**SKIN CONTACT:** Wash immediately with plenty of soap and water. Remove and clean all contaminated clothing and launder before reuse.

**INGESTION:** If swallowed, drink two glasses of water. Induce vomiting. This should be done only by medical or experienced first-aid personnel. Do not give anything to mouth to an unconscious person. Get prompt medical attention.

**PREVENTIVE MEASURES**

**PERSONAL PROTECTION:** The selection of personal protective equipment varies depending upon conditions of

use. When handling product wear long sleeves, chemical resistant gloves and safety glasses with side shields. Where splashing during mixing may occur wear full face shield. Where concentrations in air may exceed the occupational exposure limits and where engineering work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation. The respirators may not be necessary for handling the materials in outdoor environment. Eye wash station (sink) or shower facility near the job is recommended in case of emergency.

## ACCIDENTAL RELEASE MEASURES

### **PROCEDURE IN CASE OF LEAKS:**

Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards. Prevent spills from entering sewers, watercourses or low areas. Absorb with sand or other absorbent material. Residue may be removed with water and detergent. All precautions should be taken when cleaning the spill with solvent.

**ENVIRONMENTAL PRECAUTIONS:** Avoid discharge to sewers or waterways. Harmful in the environment. Toxic to aquatic organisms

**SPILL CONTROL AND DISPOSAL:** Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of chemicals.

## HANDLING AND STORAGE

**HANDLING STORAGE AND SHIPPING:** Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. DO NOT handle or store near an open flame, sources of heat, or sources of ignition. Protect material from direct sunlight. This product will accumulate static charges which may cause an incendiary electrical discharge. Use proper grounding procedures. Use only explosion proof equipment for power spraying application. Empty product containers may contain product residue. DO NOT REUSE.

## FIRE AND EXPLOSION DATA

Flashpoint and Method: 31.7C/89F (TCC)

Auto ignition Temperature: Not applicable

Flammable Limits: Not Available

**GENERAL HAZARDS:** Flammable liquid; may release vapour that form combustible mixtures at or above the flash point. Toxic gases will form upon combustion.

**FIRE FIGHTING:** Wear NIOSH-approved self-contained breathing apparatus with independent air supply. Wear complete body protective butyl rubber clothing. Personnel in vicinity and downwind should be evacuated.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, and carbon monoxide, various hydrocarbons, phenol.

## REACTIVITY DATA

**GENERAL:** This product is stable and hazardous polymerization will not occur under normal conditions.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:** Excessive heating. Avoid contact with strong oxidizing agents, acids and alkalis.

**HAZARDOUS DECOMPOSITION:** carbon monoxide, carbon dioxide



**Material Safety Data Sheet  
ZeraBrazе PART B**

**PRODUCT INFORMATION**

Manufacturer: Zeraus Products Inc.  
250 Rayette Road, Unit 18  
Vaughan, Ontario L4K 2G6

**PRODUCT INFORMATION**

Product Identifier: ZeraBrazе Part B

Application and Use: General Purpose Epoxy Paint

Product Description: Two component Epoxy Coating (solvent-based amine blends)

**HAZARD RATING SYSTEM (USA):**

Health: 3

Flammability: 3

Reactivity: 0

**HAZARD RATING SYSTEM (USA):**

Health: 3

Flammability: 4

Reactivity: 0

WHMIS (Canada):

Class B-2: Flammable liquid with a flash point lower than 37.8 C (100F)

Class D-2B: Material causing other toxic effects.

**TRANSPORTATION OF DANGEROUS GOODS INFORMATION:**

Flammable Liquid, Corrosive, N.O.S. (Amino Terminated Polyether)

Hazard Class: 8

ID Number: UN 2289

Packing Group: III

**EMERGENCY TELEPHONE NUMBERS**

Business: (905) 761-9920

24 Hours: (416) 574-5154

**LABEL PRECAUTIONS**

**FLAMMABLE. CORROSIVE. TOXIC IF SWALLOWED OR INHALED. CAUSES SEVERE EYE AND SKIN IRRITATION & BURN.**

**Keep away from heat, sparks and flame.**

**Keep container closed.**

**Use only with adequate ventilation**

**Wash thoroughly after handling**

**Avoid breathing vapours**

**Avoid contact with eyes, skin and clothing**

**Keep away from children**

## PHYSICAL DATA

Physical State: Liquid	Vapour Density: n/av
Specific Gravity: 0.96	Evaporation Rate: n/av
Boiling Point: n/av	Volatile: (voc): 70%
Freezing/Melting Point: n/av	Odour: Rubbing alcohol
Vapour Pressure: n/av	Appearance: Clear
Solubility in Water: Slight	Hazardous Air Pollutants: None
Viscosity: 100 cps 23°C (73°F)	

## HAZARDOUS INGREDIENTS

Ingredients	CAS#	%(weight)	LD/50 Route/Species
Amino and Epoxy Resin Copolymer	not available	10-30	LD50 - Not available
Nonyl Phenol	25154-52-3	15-40	LD50-1620mg/kg(Rat-Oral) 2140mg/kg(Rabbit-Skin)
Amino Terminated Polyether	9046-10-0	15-40	LD50-1660mg/kg(Rat-Oral) 760mg/kg (Rabbit Skin)
Isopropanol	67-63-0	20-40	LC50: 3600 mg/Kg Mouse

## POTENTIAL HEALTH EFFECTS

### **Effect of Overexposure:**

**INHALATION:** Harmful if inhaled, may affect the nervous system, causing dizziness, headache, or nausea. May cause lung irritation. May cause allergic respiratory reaction.

**EYE CONTACT:** can cause eye burns.

**SKIN CONTACT:** can cause skin burns. Can cause allergic skin reaction and sensitization.

**INGESTION:** Swallowing may cause severe burns to the mouth, throat and stomach. May cause vomiting, nausea and dizziness. Loss of consciousness and drowsiness may occur.

Toxic effects or reproduction:	No
Teratogenicity:	No
Mutagenicity:	No
Carcinogenicity:	No

**Acute or Chronic Exposure:** Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in adverse eye effects, adverse skin effect. Dryness of nasal passages may be experienced when material is inhaled over a long period of time.

## FIRST AID MEASURES

### Emergency procedures:

In the event of an emergency, remove the victim from further exposure, send for medical assistance, and initiate the following emergency procedures:

**INHALATION:** If inhaled, remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

**EYE CONTACT:** Flush with water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Get medical attention. If medical care is not promptly available, continue to irrigate for one hour.

**SKIN CONTACT:** Immediately remove contaminated clothing. Wash with soap and water and maintain gentle and continuous irrigation for 15 minutes. Launder contaminated clothing before reuse. Contact a physician if irritation develops.

**INGESTION:** Give two glasses of water. Get medical attention immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and as the clinical condition of the patient.

## PREVENTIVE MEASURES

**PERSONAL PROTECTION:** The selection of personal protective equipment varies depending upon conditions of use. When handling product wear long sleeves, chemical resistant gloves and safety glasses with side shields. Where splashing during mixing may occur wear full face shield. Where concentrations in air may exceed the occupational exposure limits and where engineering work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation. The respirators may not be necessary for handling the materials in outdoor environment with brush or roller. Eye wash station (sink) or shower facility near the job is recommended in case of emergency.

## ACCIDENTAL RELEASE MEASURES

### **PROCEDURE IN CASE OF LEAKS:**

Extinguish and eliminate source of ignition until area is determined to be free from explosion or fire hazards. Prevent spills from entering sewers, watercourses or low areas. Absorb with sand or other absorbent material (do not use sawdust). Residue may be removed with hot water and detergent. Flush small spills with water.

**ENVIRONMENTAL PRECAUTIONS:** The product (in liquid form) is toxic to aquatic life. Avoid discharge to sewers or waterways.

**SPILL CONTROL AND DISPOSAL:** Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of chemicals.

## HANDLING AND STORAGE

**HANDLING STORAGE AND SHIPPING:** Keep container closed. Wear personal protective equipment. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Keep away from heat, sparks, open flames and oxidizing agent. Protect material from direct sunlight. This product will accumulate static charges, which may cause an incendiary electrical discharge. Use proper grounding procedures. Empty product containers may contain product residue. **DO NOT REUSE.**

## FIRE AND EXPLOSION DATA

Flashpoint and Method: 31.7C/89F (TCC)

Auto ignition Temperature: 350°C

Flammable Limits: 1.1 - 7% by volume

**GENERAL HAZARDS:** Flammable liquid; may release vapour that form combustible mixtures at or above the flash point. Toxic gases will form upon combustion.

**FIRE FIGHTING:** Personnel in vicinity and downwind should be evacuated. Fire fighters should wear approved self contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION PRODUCTS:** May generate toxic or irritating combustion products. Ammonia, carbon monoxide and/or carbon dioxide and oxides of Nitrogen.

## REACTIVITY DATA

**GENERAL:** This product is stable and hazardous polymerization will not occur under normal storage conditions.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:** Excessive heating, sparks and open flames. Avoid contact with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION:** Irritating and toxic fumes at elevated temperatures. Ammonia when heated. Oxides of nitrogen. Organic acid vapours. Nitric acid. Nitrosamines. Nitrogen oxides can react with water vapours to form corrosive nitric acid. Carbon monoxide and/or dioxide. May generate ammonia gas.

## PREPARATION

Prepared By: A. Zaghloul  
Zeraus Products Inc.  
250 Rayette Road, Unit 18  
Vaughan, Ontario L4K 2G6  
**April 2011**

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