

ITW Permatex Canada
 35 Brownridge Road, Unit 1
 Halton Hills, ON Canada L7G 0C6
 Telephone: (800) 924-6994
 Urgence: 800-255-3924 (ChemTel)

Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: 21425 FAST CURE EPOXY PART 1
 Item No: 150345E
 Product Type: Epoxy resin

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
ALUMINUM HYDROXIDE 21645-51-2	40-50	>5000 mg/kg	not available	10 mg/m ³ TWA (dust)
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A) 25085-99-8	30-50	oral rat >5,000 mg/kg	not available	
TITANIUM DIOXIDE 13463-67-7	<10	>10000 mg/kg	not available	10 mg/m ³
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	<5	11400 mg/kg	not available	
EPOXY RESIN 28906-96-9	<3	not available	not available	

III. PHYSICAL DATA

Physical State/Appearance: Black liquid
 Odour & Odour Threshold: Slight odour
 Specific Gravity: 1.53
 Evaporation Rate: <1 (Butyl acetate = 1)
 Vapour Pressure: 0.03 mmHg
 Vapour Density: >1 (air =1)
 Freezing Point: Not determined
 pH: Neutral
 Octanol/Water Coefficient: Not determined
 Boiling Point: >260°C

IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
 Hazardous Combustion Products: Oxides of carbon, Irritating organic vapours.
 Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.
 Conditions of Flammability: Heating above 150C in the presence of air may cause slow oxidative decomposition and above 260C may cause polymerization.
 Flash Point/Range: >200°C
 Autoignition Temperature: Not determined
 Upper Explosive Limit: Not determined
 Lower Explosive Limit: Not determined

V. REACTIVITY DATA

Conditions Causing Chemical Instability: Stable under normal conditions of use
 Materials to avoid: Strong oxidizing agents, Alkalies, Acids, Strong bases
 Conditions of Reactivity: High temperatures
 Hazardous Decomposition Products: Carbon oxides, Aldehydes, Organic acid vapors

VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation

VI. HAZARDS IDENTIFICATION

Existing Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory disorders

Toxicity Information: (See Effects of Acute Exposure to Product)

Effects of Acute Exposure: May cause eye and skin irritation. May cause pain, redness or swelling of the eyes and excessive blinking and tear production. May cause nausea, vomiting, pain and stomach upset (i.e., diarrhea).

Effects of Chronic Exposure: Corneal damage. Conjunctivitis..

Irritancy of Product: May cause dermatitis on prolonged contact in sensitive individuals.

Sensitization to Product: (See Effects of Acute Exposure to Product)

Carcinogenicity: (See Effects of Chronic Exposure to Product)

Reproductive Toxicity: (See Effects of Chronic Exposure to Product)

Teratogenicity: (See Effects of Chronic Exposure to Product)

Mutagenicity: (See Effects of Chronic Exposure to Product)

Toxicologically Synergistic Products: None known

WHMIS Hazard Class: D2B TOXIC MATERIALS

VII. PREVENTATIVE MEASURES

Personal Protection

Eyes: Safety glasses.

Skin: Neoprene or nitrile gloves recommended.

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

Engineering Controls: In case of insufficient ventilation, wear an organic vapor respirator

Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Prevent from entering waterways or sewers.

Protection of Man and Environment: Follow Canadian and local regulations for disposal.

Handling Procedures and Equipment: Store in a dry area below 35°C.

Special Handling Information: Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.

VIII. FIRST AID MEASURES

Ingestion: If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If not breathing, give artificial respiration. Obtain medical attention.

Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

IX. SHIPPING INFORMATION

Canadian Transportation of Dangerous Goods

Proper Shipping Name: Not regulated

Hazard Class: None

UN/ID No: None

IATA (Air)

Proper Shipping Name: Not regulated

Class or Division: None

UN/ID Number: None

IMDG (Vessel)

Proper Shipping Name: Not regulated

Hazard Class: None

UN Number: None

X. PREPARATION INFORMATION

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0
(HMIS is a registered trademark of the National Paint and Coatings Association)

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 0
(NFPA is a registered trademark of the National Fire Protection Association)

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety

Revision Date: October 29, 2012

X. PREPARATION INFORMATION

Company: ITW Permatex Canada. 35 Brownridge Rd. Unit 1, Halton Hills, ON L76 0C6

Revision Number: 6

Telephone No.: 1-800-924-6994

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Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: 21425 FAST CURE EPOXY PART 2
Item No: 150445E
Product Type: Epoxy hardener

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
ALUMINUM HYDROXIDE 21645-51-2	40-50	>5000 mg/kg	not available	10 mg/m ³ TWA (dust)
POLYMERCAPTAN CURING AGENT Proprietary	20-40	not available	not available	
BENZYL ALCOHOL 100-51-6	<10	1230 mg/kg	8.8 mg/L/4H	
2,4,6- TRIS(DIMETHYLAMINOMETHYL)PH ENOL 90-72-2	<10	1000 mg/kg	not available	
STYRENE 100-42-5	<5	1000 mg/kg	11.8 mg/L/4H	20 ppm

III. PHYSICAL DATA

Physical State/Appearance: Black paste
Odour & Odour Threshold: Mercaptan odour
Specific Gravity: 1.4
Evaporation Rate: <1 (Butyl acetate = 1)
Vapour Pressure: <5 mmHg @ 21°C
Vapour Density: >1 (air =1)
Freezing Point: Not determined
pH: Does not apply
Octanol/Water Coefficient: Not determined
Boiling Point: >150°C/302°F

IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Hazardous Combustion Products: Amines, Ammonia, Oxides of carbon, Oxides of nitrogen
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.
Conditions of Flammability: During a fire, irritating and toxic gases may be generated during combustion or decomposition.
Flash Point/Range: >95°C PMCC
Autoignition Temperature: Not determined
Upper Explosive Limit: Not determined
Lower Explosive Limit: Not determined

V. REACTIVITY DATA

Conditions Causing Chemical Instability: Stable under normal conditions of use
Materials to avoid: Strong oxidizing agents, Acids, Peroxides, Sodium hypochlorite, Metals
Conditions of Reactivity: High temperatures. Avoid contact with incompatible materials.
Hazardous Decomposition Products: Carbon oxides, Oxides of nitrogen, Amines, Ammonia

VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation

VI. HAZARDS IDENTIFICATION

Existing Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory disorders

Toxicity Information: (See Effects of Acute Exposure to Product)

Effects of Acute Exposure: Can cause severe skin and eye irritation or burns. May cause permanent visual impairment. May be absorbed through the skin with toxic effects. Ingestion may cause abdominal pain, vomiting.

Effects of Chronic Exposure: May cause central nervous system effects. Corneal damage.

Irritancy of Product: Contact causes severe skin irritation and possible burns. Eye irritation may be severe. May cause gastrointestinal irritation, central nervous system depression.

Sensitization to Product: (See Effects of Acute Exposure to Product)

Carcinogenicity: (See Effects of Chronic Exposure to Product)

Reproductive Toxicity: (See Effects of Chronic Exposure to Product)

Teratogenicity: (See Effects of Chronic Exposure to Product)

Mutagenicity: (See Effects of Chronic Exposure to Product)

Toxicologically Synergistic Products: None known

WHMIS Hazard Class: E CORROSIVE MATERIAL, D2B TOXIC MATERIALS

VII. PREVENTATIVE MEASURES

Personal Protection

Eyes: Safety glasses with side shields or chemical goggles.

Skin: Neoprene or nitrile gloves recommended.

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. In case of insufficient ventilation, wear an organic vapor respirator

Engineering Controls:

Spill Procedures: Wear appropriate protective and respiratory equipment. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Prevent from entering waterways or sewers.

Protection of Man and Environment: Follow Canadian and local regulations for disposal.

Handling Procedures and Equipment: Store in a dry area below 35°C.

Special Handling Information: Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.

VIII. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.

Skin Contact: Rinse immediately with plenty of water for at least 15 minutes. Wash off with soap and water. If skin irritation persists, call a physician.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

IX. SHIPPING INFORMATION

Canadian Transportation of Dangerous Goods

Proper Shipping Name: Amines, liquid, corrosive, n.o.s., (Tris-2,4,6-(Dimethylaminomethyl) Phenol), Limited Quantity

Hazard Class: Class 8, PGIII

UN/ID No: UN 2735

IATA (Air)

Proper Shipping Name: Consumer Commodity

Class or Division: Class 9

UN/ID Number: ID 8000

IMDG (Vessel)

Proper Shipping Name: Amines, liquid, corrosive, n.o.s., (Tris-2,4,6-(Dimethylaminomethyl) Phenol), Limited Quantity

Hazard Class: Class 8 PGIII

UN Number: UN 2735

X. PREPARATION INFORMATION

Estimated HMIS Classification: HEALTH 3, FLAMMABILITY 1, PHYSICAL HAZARD 0
(HMIS is a registered trademark of the National Paint and Coatings Association)

Estimated NFPA Rating: HEALTH 3, FLAMMABILITY 1, REACTIVITY 0
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