

Tapecoat®

Material Safety Data Sheet

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Chase Tapecoat
1527 Lyons Street
Evanston, IL 60201
www.chasecorp.com

Transportation Emergency
CHEMTREC: (800)424-9300
CHEMTREC International: (703)527-3887

Non-Transportation
Emergency : Call CHEMTREC
Information: 847-866-8500

Product Name
TC 7000 Epoxy Resin (Part A)

Issue Date
August 3, 2012

Supersedes Date
Nov 3, 2009

SECTION 2 – HAZARD IDENTIFICATION

Emergency Overview

Preexisting eye, skin, and respiratory disorders may be aggravated by any exposure to this product. Exercise due care when handling this product. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The effects of chronic exposure to this product have not been fully investigated.

Target Organs: Liver

Human Effects and Symptoms of Overexposure

Acute Skin

Contact with skin may cause irritation, defatting and/or dermatitis. Repeated and/or prolonged contact with the skin may cause allergic reaction or sensitization.

Acute Eye

Can cause severe irritation and pain, redness, tearing and blurred vision. Repeated and/or prolonged exposures may result in adverse eye effects such as conjunctivitis or corneal damage.

Acute Inhalation

Irritation of the respiratory tract or nervous system depression producing such effects as giddiness, headache, dizziness, nausea, and loss of consciousness. If severe, death may occur.

Acute Ingestion

Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of swallowed material into the lungs can cause chemical pneumonitis which can be fatal. Absorption through gastrointestinal tract may produce liver damage and symptoms of central nervous system depression ranging from light-headedness to unconsciousness.

General Effects of Exposure

Acute Effects of Exposure

Can cause severe eye irritation, damage and corneal damage. Excessive inhalation of vapors can cause nausea, respiratory irritation, central nervous system affects, including dizziness, weakness, fatigue, nausea, headache, and possible unconsciousness and even death. Swallowing can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Absorption through gastrointestinal tract may produce liver damage and symptoms of central nervous system depression ranging from light-headedness to unconsciousness.

Chronic Effects of Exposure

Prolonged and repeated skin contact can cause moderate irritation, defatting and dermatitis. Repeated and/or prolonged exposures may result in adverse eye effects such as conjunctivitis or corneal damage.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

CAS Number	EC Number	Material	Weight %
25068-38-6	500-033-5	Epoxy resin (Bisphenol A diglycidyl type)	30-45
2461-15-6	219-553-6	Ethyl hexyl glycidyl ether, 2-	2-3
7631-86-9	Exempt Polymer	Silicone Dioxide, amporhous	0.25-5
7727-43-7	231-784-4	Barium Sulfate	40-70

SECTION 4 – FIRST AID MEASURES

Eye Contact

Flush with water for at least 15 minutes lifting upper and lower lids and seek immediate medical attention.

Skin Contact

Immediately remove contaminated clothing. Flush with water. Follow by washing with additional soap and water. Seek medical attention if irritation from contact persists. Remove and launder contaminated clothing before reuse.

Inhalation

Remove to fresh air. Call a physician if necessary. If breathing stops, begin artificial respiration. If breathing is difficult, administer oxygen.

Ingestion

As directed by medical personnel, induce vomiting. This material is not soluble. Never give anything by mouth to an unconscious person. If spontaneous vomiting is inevitable, prevent aspiration by keeping the victim's head below the knees. Get immediate medical attention.

SECTION 5 – FIREFIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water fog, and water spray.

Special Firefighting Procedures

Containers that are exposed to intense heat should be cooled with water. Avoid spreading burning liquid with the water used for cooling purposes. Do not enter fire area without the proper protection. Wear self-contained breathing apparatus and protective gear. Fight fire from a safe distance or a protected location.

Unusual Fire/Explosion Hazard

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Vapors may be heavier than air and may travel along the ground before ignition/flashing back to vapor source. Keep welding or cutting equipment away from product.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Shut off and eliminate all ignition sources. Keep people away. Recover free liquid. Add absorbent to spill area. Avoid breathing vapors. Ventilate enclosed spaces. Keep out of streams and sewers. Place absorbed material in properly sealed non-leaking containers for proper disposal. Advise proper authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Dike properly to contain a large spill.

Waste Disposal Method

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in a container or dumpster pending disposal. Shovel spilled chemical product into empty, dry container for later disposal or recovery. Place in metal containers for recovery or disposal. Flush area with water spray. Cleanup personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.

SECTION 7 – HANDLING AND STORAGE

Storage Period

Do not transfer to unmarked containers.

Handling/Storage Precautions

Keep product containers cool, dry and away from any source of ignition. Use and store this product with adequate ventilation. Keep containers properly closed when not in use.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Amorphous Silica	6mg/m ³ (PEL-TWA)*	10mg/m ³ (TLV-TWA)*
Barium Sulfate	15mg/m ³ (PEL-TWA)*	10mg/m ³ (TLV-TWA)*

* These guidelines are established based on testing of Silica and Barium Sulfate as a dust. As a part of the 7000 Epoxy these materials are bound within the resin matrix and would not be easily made airborne.

Industrial Hygiene/Ventilation Measures

Work in well ventilated areas. All application areas should be ventilated in accordance with OSHA Regulation 29 CFR 1910. Local exhaust must be provided to keep LEL and TLV-PEL of the hazardous ingredients below acceptable limits of exposure.

Respiratory Protection

The use of respiratory protection depends on the vapor concentration above the TLVPEL. Use a NIOSH/MSHA approved cartridge-type particulate/vapor respirator or air-supplied mask in confined areas.

Hand Protection

Appropriate protective gloves should be used. Rinse and remove gloves immediately after use, and wash hand thoroughly with soap and water. Gloves should be removed and replaced immediately if there are any signs of degradation or breakthrough.

Eye Protection

Splash proof chemical goggles are recommended. If spraying, utilize protective facemask.

Skin and Body Protection

Wear protective clothing and boots impervious to the product for the duration of the anticipated exposure if there is a potential for skin contact. Discard any contaminated clothing.

Additional Protective Measures

Employees should wash their hands before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous Liquid
Color	Red
Viscosity	15000 cps
Odor	Epoxy Resin Odor
VOC Content	0 g/L
pH	Not available
Boiling Point	Not available
Flash Point	>250° (>482°F) (Closed Cup)
Lower Explosion Limit	Not available
Upper Explosion Limit	Not available
Vapor Pressure @ 25°C	Negligible
Specific Gravity	1.8
Solubility in Water	Negligible
Autoignition Temperature	Not available
Evaporation Rate	Negligible

SECTION 10 – STABILITY AND REACTIVITY**Hazardous Polymerization**

Will not occur.

Stability

Material is stable under normal conditions.

Materials to Avoid

Avoid contact with strong oxidizing agents (i.e. perchlorates, nitrates, etc.). Cleaning solutions, such as chromerge (sulfuric acid/dichromate) and aqua regia. A reaction accompanied by large heat release occurs when the product is mixed with acids.

Conditions to Avoid

Avoid open flames, welding arcs or other high temperature sources which induce thermal decomposition.

Hazardous Decomposition Products

Incomplete combustion may generate carbon monoxide, carbon dioxide and other toxic vapors from organic compounds. Nitrogen oxides may be evolved in a fire, nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm).

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity Note

May cause skin and eye irritation. Contains a substance that is listed as a possible carcinogen (see note below).

CAS Number	Material	DERMAL LD50	INAHALATION LC50	ORAL LD50
25068-38-6	Epoxy resin (Bisphenol A epichlorohydrin type)	N/E	N/E	13,600 mg/kg (Rat)
2461-15-6	Ethyl hexyl glycidyl ether, 2-	>2,000 mg/kg (Rabbit)	N/E	7,800 mg/kg (Rat)
7631-86-9	Silicone Dioxide, amporhous	N/E	N/E	>5,000 mg/kg (Rat)
7727-43-7	Barium Sulfate	N/E	N/E	N/E

CAS Number	Material	Carcinogenicity ACGIH/IARC	Teratogenicity	Mutagenicity
25068-38-6	Epoxy resin (Bisphenol A epichlorohydrin type)	N/E	N/E	N/E
2461-15-6	Ethyl hexyl glycidyl ether, 2-	N/E	N/E	N/E
7631-86-9	Silicone Dioxide, amporhous	N/E	N/E	N/E
7727-43-7	Barium Sulfate	N/E	N/E	N/E

N/E: Not Established

* Confirmed animal carcinogen with unknown relevance to humans.

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Note

No information is available on this product. This product is not expected to be readily biodegradable.

Ecological Data for Epoxy Resin

Acute Toxicity to Fish

LC50: 3.1 mg/l (Fathead Minnow, 96h)

Acute Toxicity to Aquatic Invertebrate

EC50: 1.4-1.7 mg/l (Daphnia Magma, 48h)

Acute Toxicity to Algae

EC50: >42.6 mg/l (18h)

Ecological Data for Ethyl hexyl glycidyl ether, 2-

Acute Toxicity to Fish

LC50: 10-100 mg/l

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

SECTION 14 – TRANSPORT INFORMATION

Land Transport (DOT)

Not Regulated

Marine Transport (IMDG)

UN number: 3082

Class: 9

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

Technical Name: Reaction product: bisphenol-A (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)

Marine Pollutant: Yes

Air Transport (IATA)

UN number: 3082

Class: 9

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

Technical Name: Reaction product: bisphenol-A (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)

SECTION 15 – REGULATORY INFORMATION

All components are listed on the TSCA Chemical Inventory.

Federal and State Regulations

California Prop 65

This product does not contain any chemicals known by the State of California to cause cancer, birth defects or any other reproductive harm.

Pennsylvania RTK

Reaction product: bisphenol-A (epichlorhydrin) and epoxy resin (number average molecular weight <= 700) (CAS: 25068-38-6)

New Jersey RTK

Reaction product: bisphenol-A (epichlorhydrin) and epoxy resin (number average molecular weight <= 700) (CAS: 25068-38-6)

SARA 311/312 Hazards

bisphenol-A (epichlorhydrin) (25068-38-6): Acute Health hazard

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). (Skin sensitizer, Irritant)

EEC Labeling

Symbols: Danger (Xi), XN

R Phases: 43, 52/53, 65

S Phrases: 23,24, 37, 61, 62

HMIS Classification

Health	3
Flammability	1
Physical Hazard	1

0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

NFPA Rating

Health	3
Fire	1
Reactivity Hazard	0

0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe

SECTION 16 – OTHER INFORMATION

Format

This form is designed to meet the guidelines provided by the American National Standards Institute (ANSI) Form Z400.1/Z129.1 – 2010.

Disclaimer

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Issued By

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