

## Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

## U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (as Used on Label and List)  
**Epoxy Resin Dissolver**

*Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.*

### Section I

Manufacturer's name Museum Services Corporation	Emergency Telephone Number 651-450-8954
Address (Number, Street, City, State and ZIP Code) 385 Bridgepoint Way South Saint Paul, MN 55075	Telephone Number for Information 651-450-8954
	Date Prepared 04/03/2017
	Signature of Preparer (optional)

### Section II—Hazardous Identification

Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2

Carcinogenicity Category 1B

Specific target organ toxicity (single exposure) Category 3

Target organs: Central Nervous System (CNS)

#### Label elements

##### Hazard pictograms



Signal word: **DANGER!**

#### Hazards

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

May cause cancer.

Highly flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Suspected of damaging the unborn child via inhalation.

May cause damage to organs through prolonged or repeated exposure.

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**Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area.

Do NOT induce vomiting.

IF exposed or concerned: Get medical advice/ attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN (or hair): Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician.

Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

Take precautionary measures against static discharge.

Wear protective gloves and eye and face protection.

**Storage**

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

**Disposal**

Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC)**

WARNING! This product contains a chemical known in the State of California to cause cancer.

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**Section III—Composition/Information on Ingredients**

Component	CASRN	Concentration	
Methylene chloride	75-09-2	95%	
Toluene	108-88-3	5%	

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**Section IV—First Aid Measures****General advice**

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Skin**

Wash skin with soap and copious amounts of water. Seek medical attention.

**Inhalation**

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

**Eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

### **Ingestion**

Do not induce vomiting. Call a physician or Poison Control Center immediately.

### **Most important symptoms/effects**

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

### **Notes to Physician**

Treat symptomatically

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## **Section V—Fire and Explosion Hazard Data**

**Extinguishing Media** - SMALL FIRE: Use dry chemicals, CO<sub>2</sub>, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam. Cool all affected containers with flooding quantities of water.

**Special Fire Fighting Procedures** – no data available

**Unusual Fire and Explosion Hazards** -Carbon oxides expected to be the primary hazardous combustion product.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

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## **Section VI—Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions:** Should not be released into the environment. See Section 12 for additional ecological information. Prevent product from entering drains.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

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## **Section VII—Handling and Storage**

**Precautions for safe handling:** Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Use only under a chemical fume hood. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue, follow all MSDS and label warnings even after container is emptied.

**Conditions for safe storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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## **Section VIII—Exposure Control /Personal Protection**

### **Exposure Guidelines**

#### **Component**

Methylene Chloride

#### **ACGIH TLV**

TWA: 50 ppm

#### **OSHA PEL**

(Vacated) TWA: 500 ppm

(Vacated) STEL: 2000 ppm

(Vacated) Ceiling: 1000 ppm

TWA: 25 ppm

STEL: 125 ppm

#### **NIOSH IDLH**

IDLH: 2300 ppm

#### **Quebec**

TWA: 50 ppm

TWA: 174 mg/m<sup>3</sup>

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**Mexico OEL (TWA)**

TWA: 100 ppm

TWA: 330 mg/m<sup>3</sup>**Ontario TWAEV**

TWA: 50 ppm

**Legend****ACGIH** - American Conference of Governmental Industrial Hygienists**OSHA** - Occupational Safety and Health Administration**NIOSH IDLH**: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Respiratory Protection (*Specify Type*) A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information.

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**Engineering Controls:** Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Electrical equipment should be grounded and conform to applicable electrical code.

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**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Handle in accordance with good industrial hygiene and safety practice.

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**Protective Gloves:** Wear appropriate protective gloves and clothing to prevent skin exposure. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Maintain eye wash fountain and quick-drench facilities in work area.

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**Section IX—Physical and Chemical Properties**

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**Appearance****Physical state** - liquid**Color-** colorless clear**Odor** - Sweet. Alcohol-like.**Odor Threshold-** no data available**pH-** no data available**Melting point/range** -97 °C / -142.6 °F**Boiling point (760 mmHg)** - 39 °C / 102.2 °F**Flash point Pensky-Martens closed cup** - No information available**Flammability or explosive limits****Upper** - 23 vol %**Lower-** 13 vol %**Vapor Pressure** 350 m**Vapor Density** 2.93 (Air = 1.0)**Specific Gravity** 1.33**Solubility** No information available**Partition coefficient; n-octanol/water** No data available**Autoignition Temperature** 556 °C**Decomposition Temperature** - No information available**Viscosity** - No information available**Percent volatility** 54.00 - 56.00 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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**Section X—Stability and Reactivity**

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**Reactive Hazard**

None known, based on information available

**Stability**

Stable under normal conditions.

**Conditions to Avoid**

Incompatible products. Excess heat.

**Incompatible Materials**

Strong oxidizing agents, Strong acids, Amines

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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**Section XI—Toxicological Information**

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*Toxicological information appears in this section when such data is available.*

**Product Summary:**

Laboratory tests have shown teratogenic, reproductive and germ cell mutagenic effects.

**Toxicologically Synergistic Products**

No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Irritation**

Irritating to eyes and skin

**Sensitization**

No information available

**Acute Toxicity Methylene Chloride**

**LC50 (Inhalation)** Rat 53 mg/L (6 h)

**LD50 (Dermal)** Rat > 2000 mg/kg

Rat 76000 mg/m<sup>3</sup> (4 h)

**LD50 (Oral)** Rat > 2000 mg/kg

**Acute Toxicity Toluene:**

**LC50 (Inhalation)** Rat 12,500-28,800 mg/m<sup>3</sup> (4 h)

**LD50 (Dermal)** Rabbit 12,196 mg/kg

**LD50 (Oral)** Rat > 5580 mg/kg

**Irritation:****Skin**

Rabbit - skin irritation - 24h

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methylene Chloride	75-09-2	Group 2A	Reasonably Anticipated	A3	X	A3

**Legend:****IARC: (International Agency for Research on Cancer)**

*Group 1 - Carcinogenic to Humans*

*Group 2A - Probably Carcinogenic to Humans*

*Group 2B - Possibly Carcinogenic to Humans*

**NTP: (National Toxicity Program)**

*Known - Known Carcinogen*

*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

*A1 - Known Human Carcinogen*

*A2 - Suspected Human Carcinogen*

*A3 - Animal Carcinogen*

**Mexico - Occupational Exposure Limits - Carcinogens**

*A1 - Confirmed Human Carcinogen*

*A2 - Suspected Human Carcinogen*

*A3 - Confirmed Animal Carcinogen*

*A4 - Not Classifiable as a Human Carcinogen*

*A5 - Not Suspected as a Human Carcinogen*

**Mutagenic Effects**

Mutagenic effects have occurred in microorganisms.

**Reproductive Effects**

Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects**

Developmental effects have occurred in experimental animals.

**Teratogenicity**

No information available.

**STOT - single exposure**

Central nervous system (CNS)

**STOT - repeated exposure**

None known

**Aspiration hazard**

No information available

**Symptoms / effects, both acute and delayed**

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

**Endocrine Disruptor Information**

No information available

**Other Adverse Effects**

Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

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**Section XII—Ecological Information**

*Ecotoxicological information appears in this section when such data is available.*

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methylene chloride	EC50:>660 mg/L/96h	Pimephales promelas: LC50:193 mg/L/96h	EC50: 1 mg/L/24 h	EC50: 140 mg/L/48h
Toluene	EC50:245.00mg/l/24h	LC50 :63 mg/l/96h	NA	EC50 /24h

**Persistence and Degradability**

Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation**

No information available.

**Mobility**

Will likely be mobile in the environment due to its volatility.

**Section XIII—Disposal Considerations**

**Disposal methods:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Section XIV—Transport Information**

**DOT UN-No:** UN1593

**Proper Shipping Name:** DICHLOROMETHANE

**Hazard Class:** 6.1

**Packing Group:** III

**TDG UN-No:** UN1593

**Proper Shipping Name:** DICHLOROMETHANE

**Hazard Class:** 6.1

**Packing Group:** III

**IATA UN-No:** UN1593

**Proper Shipping Name:** Dichloromethane

**Hazard Class:** 6.1

**Packing Group:** III

**IMDG/IMO UN-No:** UN1593

**Proper Shipping Name:** Dichloromethane

**Hazard Class:** 6.1

**Packing Group:** III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**Section XV—Regulatory Information**

All of the components in the product are on the following Inventory lists: X = listed

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	EICSC	KECL
Methylene Chloride	X	X		200-838-9			X	X	X	X	X
Toluene	x	x		x			x	x	x		

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

*N* - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

*P* - Indicates a commenced PMN substance

*R* - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

*S* - Indicates a substance that is identified in a proposed or final Significant New Use Rule

*T* - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

*XU* - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

*Y1* - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

*Y2* - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactant that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

**TSCA 12(b)**

**SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methylene chloride	75-09-2	>99.5	0.1

**SARA 311/312 Hazard Categories**

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

**CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Methylene chloride	N/A	N/A	X	X

**Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methylene chloride	X	N/A	N/A

**OSHA Occupational Safety and Health Administration**

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Methylene chloride	125 ppm STEL	N/A
	12.5 ppm Action Level	
	25 ppm TWA	



**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb 1 lb	N/A

**California Proposition 65:** This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop.65	Prop 65 NSRL	Category
Methylene chloride	75-09-2	carcinogen	200 µg/day 50 µg/day	carinogen

**U.S. State Right-to-Know****Regulations**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylene chloride	X	X	X	X	X

**U.S. Department of Transportation**

Reportable Quantity (RQ): Y

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations****Mexico - Grade**

No information available

**Canada**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR**

**WHMIS Hazard Class**

D1B Toxic materials

D2A Very toxic materials

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**Section XVI—Other Information**


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**Revision**

Version: 1.0

**Information Source and References**

This SDS is from information supplied by internal references within our company.

Museum Services Corporation urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that their activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer specific SDSs, we are not and cannot be responsible for (M)SDSs obtained from any other sources. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.