

COMPANY IDENTITY: CSD/Startex  
PRODUCT IDENTITY: EPOXY THINNER

DATE: 04/20/10  
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### SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.

THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this SDS before handling & disposing of this product.

Pass this information on to employees, customers, & users of this product.

#### SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: EPOXY THINNER  
NEW MSDS DATE: 04/20/2010  
COMPANY IDENTITY: CSD/Startex  
COMPANY ADDRESS: P O Box 3087  
COMPANY CITY: Conroe, TX 77305  
COMPANY PHONE: 1-936-228-0865  
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)

#### SECTION 2. HAZARDS IDENTIFICATION

### DANGER!!

EXPOSURE PREVENTION: STRICT HYGIENE!  
AVOID EXPOSURE OF (PREGNANT) WOMEN!

#### RISK STATEMENTS:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R11 Highly Flammable.  
R41 Risk of serious damage to eyes.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapors may cause drowsiness and dizziness.

#### SAFETY STATEMENTS:

S7/9 Keep container tightly closed and in a well-ventilated place.  
S37/39 Wear suitable gloves and eye/face protection.  
S16 Keep away from sources of ignition. No smoking.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

SEE SECTION 11 FOR OTHER TOXICOLOGICAL INFORMATION (ACUTE & CHRONIC HAZARDS)

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| MATERIAL            | CAS#      | EINECS#   | WT%   | TWA (OSHA) | TLV (ACGIH) |
|---------------------|-----------|-----------|-------|------------|-------------|
| n-Butanol           | 71-36-3   | 200-751-6 | 35-40 | 100 ppm S  | 25 ppm S    |
| Methyl Ethyl Ketone | 78-93-3   | 201-159-0 | 35-40 | 200 ppm    | 200 ppm     |
| Xylenes             | 1330-20-7 | 215-535-7 | 10-20 | 100 ppm    | 100 ppm A4  |
| Ethylbenzene        | 100-41-4  | 202-849-4 | 0- 5  | 100 ppm    | 100 ppm A3  |

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS (CONTINUED)**

| MATERIAL            | CAS#      | EINECS#   | CEILING    | STEL(OSHA/ACGIH) | HAP |
|---------------------|-----------|-----------|------------|------------------|-----|
| n-Butanol           | 71-36-3   | 200-751-6 | 50 ppm     | 25 ppm           | No  |
| Methyl Ethyl Ketone | 78-93-3   | 201-159-0 | None Known | 300 ppm          | No  |
| Xylenes             | 1330-20-7 | 215-535-7 | None Known | 150 ppm          | Yes |
| Ethylbenzene        | 100-41-4  | 202-849-4 | None Known | 125 ppm          | Yes |

In addition to EPA Hazardous Air Pollutants showing `Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene, Toluene, Cumene

**SECTION 4. FIRST AID MEASURES**

**EYE CONTACT:**

For eyes, flush with plenty of water for 15 minutes & get medical attention.

**SKIN CONTACT:**

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

**INHALATION:**

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

**SWALLOWING:**

Rinse mouth. Give a slurry of activated charcoal in water to drink. Give plenty of water to drink. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Rest. Do NOT give liquids to an unconscious or convulsing person.

**SECTION 5. FIRE FIGHTING MEASURES**

**FIRE & EXPLOSION PREVENTIVE MEASURES**

NO open flames, NO sparks, & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment, lighting. Do NOT use compressed air for filling, discharging, or handling.

**EXTINGUISHING MEDIA**

Use dry powder, AFFF, foam, water spray, carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES**

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

**UNUSUAL EXPLOSION AND FIRE PROCEDURES**

**HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE**

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PROTECTIVE MEASURES:

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources. Use self-contained breathing apparatus.

#### ENVIRONMENTAL PRECAUTIONS:

Do NOT let this chemical enter the environment.  
Keep from entering storm sewers and ditches which lead to waterways.

#### CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent. Remove to safe place.

### SECTION 7. HANDLING AND STORAGE

#### HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions! To minimize static discharge when transferring, ensure electrical continuity by bonding and grounding all equipment. Use an inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

#### STORAGE

Keep in fireproof surroundings. Keep separated from strong oxidants, strong acids. Keep cool. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### VENTILATION

|                |           |                       |            |
|----------------|-----------|-----------------------|------------|
| LOCAL EXHAUST: | Necessary | MECHANICAL (GENERAL): | Acceptable |
| SPECIAL:       | None      | OTHER:                | None       |

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

#### PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)**

**WORK & HYGIENIC PRACTICES:**

Provide readily accessible eye wash stations & safety showers.  
Wash at end of each workshift & before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

**SECTION 9. PHYSICAL & CHEMICAL PROPERTIES**

|  |                                      |
|--|--------------------------------------|
| APPEARANCE:                                      | Liquid, Water-White                  |
| ODOR:  | Ketone                               |
| ODOR THRESHOLD:                                  | Not Available                        |
| pH (Neutrality):                                 | Not Applicable                       |
| MELTING POINT/FREEZING POINT:                    | Not Available                        |
| BOILING RANGE (IBP,50%,Dry Point):               | 78 108 141 C / 174 228 287 F         |
| FLASH POINT (TEST METHOD):                       | -2 C / 28 F (TCC) (Lowest Component) |
| EVAPORATION RATE (n-BUTYL ACETATE=1):            | 0.843                                |
| FLAMMABILITY CLASSIFICATION:                     | Class I B                            |
| LOWER FLAMMABLE LIMIT IN AIR (% by vol):         | 1.5                                  |
| UPPER FLAMMABLE LIMIT IN AIR (% by vol):         | Not Available                        |
| VAPOR PRESSURE (mm of Hg)@20 C                   | 32.6                                 |
| VAPOR DENSITY (air=1):                           | 2.7                                  |
| GRAVITY @ 68/68 F / 20/20 C:                     |                                      |
| SPECIFIC GRAVITY (Water=1):                      | 0.820                                |
| POUNDS/GALLON:                                   | 6.834                                |
| WATER SOLUBILITY:                                | Appreciable                          |
| PARTITION COEFFICIENT (n-Octane/Water):          | Not Available                        |
| AUTO IGNITION TEMPERATURE:                       | 343 C / 650 F                        |
| DECOMPOSITION TEMPERATURE:                       | Not Available                        |
| REFRACTIVE INDEX:                                | 1.410                                |
| VOC'S (>0.44 Lbs/Sq In) :                        | 60.5 Vol% / 496.0 g/L / 4.1 Lbs/Gal  |
| TOTAL VOC'S (TVOC):                              | 100.0 Vol% / 820.4 g/L / 6.8 Lbs/Gal |
| NONEXEMPT VOC'S (CVOC):                          | 100.0 Vol% / 820.4 g/L / 6.8 Lbs/Gal |
| HAZARDOUS AIR POLLUTANTS (HAPS):                 | 21.2 Wt% / 174.0 g/L / 1.4 Lbs/Gal   |
| NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C) | 32.6                                 |

**SECTION 10. STABILITY & REACTIVITY**

**STABILITY**

Stable under normal conditions.

**CONDITIONS TO AVOID**

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

**MATERIALS TO AVOID**

Reacts violently with strong oxidants, strong acids, causing fire & explosion hazard. Attacks many plastics, coatings.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Carbon Monoxide, Carbon Dioxide from burning.

**HAZARDOUS POLYMERIZATION**

Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### ACUTE HAZARDS

#### EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.  
Absorption thru skin increases exposure.  
Primary irritation to eyes, redness, tearing, blurred vision.  
Liquid can cause eye burns . Wash thoroughly after handling.

#### INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs. Use of alcoholic beverages enhances the harmful effect.

#### SWALLOWING:

Harmful or fatal if swallowed.  
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.  
The symptoms of chemical pneumonitis may not show up for a few days.

### SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

#### CONDITIONS AGGRAVATED

Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs.  
Persons with severe skin, liver or kidney problems should avoid use.

### CHRONIC HAZARDS

#### CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Potential Cancer Hazard based on tests with laboratory animals using Ethylbenzene. Overexposure may create cancer risk. Leukemia been reported in humans from Benzene. This product contains less than 21 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus. Depending on degree of exposure, periodic medical examination is indicated. Some persons may be more sensitive to the substance's effect on blood cells.

### MAMMALIAN TOXICITY INFORMATION

| MATERIAL  | CAS#    | EINECS#   | LOWEST KNOWN LETHAL DOSE DATA<br>LOWEST KNOWN LD50 (ORAL) |
|-----------|---------|-----------|---|
| n-Butanol | 71-36-3 | 201-159-0 | 790.0 mg/kg(Rats)   |

**SECTION 12. ECOLOGICAL INFORMATION**

**AQUATIC ANIMAL INFORMATION:**

The most sensitive known aquatic group to any component of this product is: Fish exposed to 5120 ppm or mg/L are adversely affected by components of this product. Keep out of sewers and natural water supplies. The substance is toxic to aquatic organisms.

**MOBILITY IN SOIL**

This material is a mobile liquid.

**DEGRADABILITY**

This product is partially biodegradable.

**ACCUMULATION**

This product does not accumulate or biomagnify in the environment.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

**SECTION 14. TRANSPORT INFORMATION**

DOT SHIPPING NAME: UN1263, RQ, Paint Related Material  
(Contains: n-Butanol, Xylene), 3, PG-II  
DRUM LABEL: (FLAMMABLE LIQUID)  
IATA / ICAO: UN1263, Paint Related Material  
(Contains: n-Butanol, Xylene), 3, PG-II  
IMO / IMDG: UN1263, Paint Related Material  
(Contains: n-Butanol, Xylene), 3, PG-II  
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

**SECTION 15. REGULATORY INFORMATION**

**EPA REGULATION:**

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.

**SARA Title III Section 313 Supplier Notification**

This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

| <b>SARA TITLE III INGREDIENTS</b> | <b>CAS#</b> | <b>EINECS#</b> | <b>WT%</b> | <b>(REG. SECTION)</b> | <b>RQ(LBS)</b> |
|-----------------------------------|-------------|----------------|------------|-----------------------|----------------|
| *n-Butanol                        | 71-36-3     | 200-751-6      | 35-40      | (311,312,313,RCRA)    | 5000           |
| Methyl Ethyl Ketone               | 78-93-3     | 201-159-0      | 35-40      | (311,312)             | 5000           |
| *Xylenes                          | 1330-20-7   | 215-535-7      | 10-20      | (311,312,313,RCRA)    | 100            |
| *Ethylbenzene                     | 100-41-4    | 202-849-4      | 0- 5       | (311,312,313,RCRA)    | 1000           |

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#### SECTION 15. REGULATORY INFORMATION (CONTINUED)

> 589 LB / 267 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF XYLENES. Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties. State & local regulations may be more restrictive than federal regulations.

#### STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause cancer: Ethylbenzene

#### INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:  
Australia, Canada, China, Europe (EINECS), Japan, Korea, United Kingdom.

#### CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

B2: Flammable Liquid.  
D2A: Contains a substance known to cause serious chronic toxicity or death.  
Ethylbenzene

#### SECTION 16. OTHER INFORMATION

#### HAZARD RATINGS:

HEALTH (NFPA): 2, HEALTH (HMIS): 2, FLAMMABILITY: 3, REACTIVITY: 0  
(Personal Protection Rating to be supplied by user based on use conditions.)  
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

#### EMPLOYEE TRAINING

See Section 2 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

#### NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.