

MSDS# CTZ  
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# Pro-Thaw™ Liquid Dryer

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Manufactured by: Specialty Chemical Manufacturing  
A DiversiTech Company  
1633-B High Bridge Road  
Quincy, FL 32351

EMERGENCY Phone No.: 1+800.434.9300 Chem-Tel (Chemical Emergencies Only)  
Phone Number for Information: 850-875-1716 Fax: 850-627-2699  
Date Revised: April 2009  
Prepared by: Anthony Jernigan

## SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS No.	OSHA PEL	ACIGH TLV	Other STEL	% or RNG
Methanol	67-56-1	200 ppm(S)	200 ppm(skin)		90-100
Ethanol	64-17-5	1000 ppm			1-10

## SECTION 3. HEALTH INFORMATION

**Ventilation:** Use adequate ventilation to control exposure below recommended levels.

**Respiratory Protection:** For concentrations exceeding the recommended exposure level, use IOSH/MSHA approved air purifying respirator. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator. If conditions immediately dangerous to life or health (IDLH) exist, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA) equipment.

**Eye Protection:** For splash protection use chemical goggles and face shield.

**Skin Protection:** Use protective garments to prevent skin contact.

NOTE: Personal protection information shown in Section III is based on general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

## SECTION 4. HANDLING AND STORAGE PRECAUTIONS

Do not get in eyes, on skin or on clothing. Do not breathe vapors, mist, fume or dust. Do not swallow. May be fatal. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use only with adequate ventilation. Store in a well-ventilated area. Keep away from heat, sparks, and flames. Keep container closed when not in use.

## SECTION 5. REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** Not Applicable

**Incompatibility (Materials to Avoid):** Anhydrides, sodium, organometallic compounds, oxygen and strong oxidizing agents

**Hazardous Polymerization:** Will Not Occur

**Hazardous Decomposition Products:** Carbon oxides formed when burned.

## SECTION 6. HEALTH HAZARD DATA

**Recommended Exposure Limits:** See Section II.

**Acute Effects of Overexposure:**

**Eye:** May cause mild to moderate irritation. Blindness associated with methanol exposure is the result of systemic toxicity following skin contact, ingestion, or inhalation of high vapor concentrations.

**Skin:** May cause slight to moderate irritation. Prolonged and repeated skin contact with vapor or liquid has a defatting effect on the skin and may cause dermatitis, drying, cracking, redness, and scaling. Absorption of methanol can occur following dermal contact, and prolonged or massive skin contact can lead to toxic systemic effects.

**Inhalation:** May cause central nervous system depression with nausea, headache, dizziness, tiredness, delirium. Overexposure may cause metabolic acidosis which cause tissue injury. High vapor concentrations may irritate the lungs resulting in pneumonitis.

**Ingestion:** May cause weakness, fatigue, dizziness, headaches, nausea, gastrointestinal disturbances, and some degree of inebriation. Methanol poisoning may cause degenerative damage to the kidneys, liver, heart, and other organs due to metabolic acidosis. Death may occur from cardiac or respiratory failure and possibly renal failure. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.

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**Subchronic and Chronic Effects of Overexposure:** Methanol cannot be made nontoxic. The toxicity of methanol depends on the amount that accumulates in the blood. Continuous and repeated high exposures to methanol are expected to exhibit the same effects as noted for acute poisoning with visual impairment being the first sign of poisoning.

**Other Health Effects:** Methanol has been reported to damage DNA of rats and induce cytogenetic changes in mice following oral and intraperitoneal dosing. Exposure of pregnant rats to methanol by inhalation (20,000 ppm) throughout gestation produced maternal toxicity and malformations in their offspring at maternally toxic exposure levels. Administration of methanol orally (2.5g/kg) to pregnant rats for three days during the later stage of gestation is reported to induce behavioral changes in their progeny, without structural malformation.

**Health Hazard Categories:**

	Animal	Human		Animal	Human
Known Carcinogen	___	___	Toxic	___	___
Suspect Carcinogen	___	___	Corrosive	___	___
Mutagen	___	___	Irritant	___	___
Teratogen	___	___	Target Organ Toxin	_X_	_X_
Allergic Sensitizer	___	___	Specify - Eye Hazard-Blindness, Lung		
Highly Toxic	___	_X_	Irritant, Liver Toxin, Nerve Toxin, Heart Toxin, Blood Toxin, Lung-Aspiration Hazard		

**First Aid and Emergency Procedures:**

**Eye:** Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

**Skin:** Wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

**Inhalation:** Immediately remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

**Ingestion:** POISON! Call a physician, or the nearest poison control center. Seek immediate medical attention before inducing vomiting.

**Note to Physician:** Ethanol may be used as antidote for methanol poisoning. The blood ethanol level should be in the range of 1 to 1.5 mg/L.

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**Note to Emergency Responder:** Induce vomiting under medical supervision due to possibility of aspiration into lungs.

## SECTION 7. PHYSICAL DATA

**Appearance:** Clear, Colorless Liquid

**Odor:** Slight Alcohol Odor

**Boiling Point:** 148°F (65°C)

**Vapor Pressure:** 96 mm Hg at 68°F (20°C)

**Vapor Density (Air = 1):** 1.11

**Solubility in Water:** Negligible; Completely Miscible

**Specific Gravity (H2O = 1):** 0.7910

**Percent Volatile by Volume:** 100

**Evaporation Rate (Ethyl Ether = 1):** <1

**Viscosity:** Not Established

## SECTION 8. FIRE AND EXPLOSION DATA

**Flash Point (Method Used):** 52°F (11°C) (ASTM D56, TCC)

**Flammable Limits (% by Volume in Air):** LEL - 6.0 UEL - 36.5

**Extinguishing Media:** Dry chemical, alcohol, foam, carbon dioxide (CO2), water spray or any Class B extinguishing agent

**Special Fire Fighting Procedures:** Evacuate area of all unnecessary personnel. Shut off source, if possible. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment and/or garments described in Section III if conditions warrant. Water fog or spray may be used to cool exposed containers and equipment.

**Fire and Explosion Hazards:** Carbon oxides formed when burned. Highly flammable vapors which are heavier than air may accumulate in low areas and/or spread along ground away from handling site. Closed containers exposed to heat may rupture.

## SECTION 9. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Precautions Required if Material is Released or Spilled:** Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section III if exposure conditions warrant. Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in dry, inert material (sand, clay, "Oil-Dri", vermiculite, etc.). Transfer to disposal drums using non-sparking equipment. Use water spray to reduce vapors.

**Waste Disposal(Insure Conformity with all Applicable Disposal Regulations):** Incinerate or otherwise manage in RCRA permitted waste management facility.

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## SECTION 10. DOT TRANSPORTATION

Shipping Name: Consumer Commodity  
Hazard Class: 3 (Flammable liquid)  
ID Number: UN 1992  
Packing Group: II  
Label: ORM-D  
Placard: Flammable/1230  
Hazardous Substance/RQ: Methanol/5000#  
Shipping Description: Flammable liquid, toxic, N.O.S 3 (contains methanol), UN 199230, PG II

## SECTION 11. MANUFACTURED FOR:

Diversitech  
6650 Sugarloaf Parkway, Suite 100  
Duluth, GA 30097  
Phone 1+678.542.3600  
EMERGENCY Phone No. 1 800-255-3924 Chem-Tel (Chemical Emergencies Only)

## SECTION 12. REFERENCE NUMBER AND DATE OF ISSUE:

COSHH Safety Data Sheet: CTZ                      Issued 04/06/2009

*This information is, to the best of our knowledge and belief, accurate and reliable as of the date completed. However no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the completeness and suitability of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer any warranty against patent infringement.*