

SDS# PRO-THAW-1, PRO-THAW
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Total Pages: 5

Pro-Thaw™ Liquid Dryer

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pro-Thaw™ Liquid Dryer
Catalog Number: PRO-THAW-1, PRO-THAW
Manufactured by: DiversiTech Corporation
6650 Sugarloaf Parkway
Duluth, GA, 30097
Information Phone No.: 1+678.542.3600
EMERGENCY Phone No.: 1 800.255.3924 Chem-Tel (Chemical Emergencies)
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SECTION 2. HAZARDOUS IDENTIFICATION

GHS Classification:

Flammable liquid Category 2
Acute Toxicity, Oral Category 3
Acute Toxicity, Inhalation Category 3
Acute Toxicity Dermal Category 3
Specific Target Organ Toxicity- Single Exposure Category 1

Label Elements:



Signal Word Danger!

Hazard Statement(s)

H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H370 Causes damage to organs: eyes, skin, respiratory system, central nervous system, gastrointestinal tract.

Precautionary statement(s)

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical, ventilating, lighting, and equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective rubber or nitrile gloves and protective clothing and goggles or face shield for eye protection and face protection.
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P312 Call a poison center or doctor if you feel unwell.
P361+364 Take off immediately all contaminated clothing and wash it before reuse.
P301+310 IF SWALLOWED: Immediately call a poison center or doctor if you feel unwell.
P330 Rinse mouth.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Pro-Thaw™ Liquid Dryer

SECTION 2. HAZARDOUS IDENTIFICATION (cont.)

P308+311	IF exposed or concerned: Call a POISON CENTER or doctor.
P370+378	IN CASE OF FIRE: Use foam or Carbon dioxide extinguishing media to extinguish.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents to appropriate facility in accordance with Federal, State, and local regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	EINECS No.	% or Range	GHS Classification	
Methanol	67-64-1	200-659-6	100	H225: Highly flammable Liquid and vapour H301: Toxic if swallowed H311: Toxic if comes in Contact w/skin H331: Toxic if inhaled H370 Cause damage to organs	Category 2 Category 3 Category 3 Category 3 Category 3

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

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: Rinse mouth. Immediately call a poison center or doctor if you feel unwell.

Skin Contact: Remove immediately all contaminated clothing. Rinse skin with water or shower. Wash clothing before reuse. Call a poison center or doctor if you feel unwell.

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

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.

4.2. Signs and Symptoms of Exposure:

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 ofailure and possibly renal failure. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.

Skin Contact: 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.

Eye Contact: 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.

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.

SECTION 5. FIREFIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media:

Dry chemical, alcohol, foam, carbon dioxide (CO₂), water spray or any Class B extinguishing agent .may be flammable.

Special Equipment and Precautions for Fire-Fighters:

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. 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.

Pro-Thaw™ Liquid Dryer

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: 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.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: 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.

Conditions for Safe Storage, Including any Incompatibilities: 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 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

Methanol:

OSHA-PEL: 200 ppm TWA; 260 mg/m³ TWA

TLV: 200 ppm

Appropriate Engineering Controls:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators: 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.

Skin Protection: Use rubber, neoprene or nitrile gloves to minimize skin contact.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. A source of running water or other eyewash provisions should be nearby.

Work Hygienic Practices: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating, smoking or using the bathroom.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid

Odor: Slight Alcohol odor

Odor Threshold: 59 ppm

pH @ 25°C: Not applicable

Melting Point (Pour Point): Not applicable

Boiling Point: 65°C/148°F

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

Evaporation Rate (Water = 1): <1

Flammable Limits: No data for mixture

LEL: 6 (% by volume)

UEL: 36.5 (% by volume)

Specific gravity (H₂O = 1): 0.791-0.793

Solubility in water: Negligible; Completely Miscible

Octanol/Water Partition Coefficient: -0.82/-0.66

Autoignition Temperature: Not available

Decomposition Temperature: Not available

Vapor pressure (mm Hg): 96 mm Hg at 68F (20C)

Vapor Density (Air = 1): 1.11

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Not Applicable.

Incompatible Materials: Anhydrides, sodium, organometallic compounds, oxygen and strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides formed when burned.

Pro-Thaw™ Liquid Dryer

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health 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 ofailure and possibly renal failure. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.

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Teratogenicity/Reproductive toxicity: Classification: IARC (International Agency for Research on Cancer) – Not Listed NTP (National Toxicology Program) - Not Listed

Mutagenic effects: Not classified.

Numerical Measures of Toxicity:

Methanol: LD/LC50 values that are relevant: LD50: ORL-RAT, 5628 mg/kg

Other: Any toxin(s) present in this kit are at concentration levels below the regulatory threshold limits which require registration under the Select Agent Program in as detailed in 42 CFR Part 73, 9 CFR Part 121, and 7 CFR Part 331.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Tests: LC50: Fish, 96 hours, 19,000 mg/L (Methanol)

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations.

RCRA P-Series: None listed.

RCRA U-Series: CAS# 67-56-1: waste number U154; (Ignitable waste) Contact a licensed professional waste disposal service to dispose of this material if questions arise.

SECTION 14. TRANSPORTATION INFORMATION

14.1 UN number

UN 1992

14.2 UN proper shipping name

Flammable Liquid, Toxic, N.O.S (contains Methanol)

14.3 Transport hazard class(es)

Class 3

14.4 Packing group

II

Pro-Thaw™ Liquid Dryer

SECTION 14. TRANSPORTATION INFORMATION (cont.)

14.5 Environmental hazards

Environmentally Hazardous Substance

14.6 Special precautions for user

See section 8

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable to packaged goods

Mode-specific information:

ROAD/RAIL (ADR/RID/CDG) Transport category 3
Tunnel restriction code D/E

SEA (IMDG) Marine Pollutant
EmS: F-E, S-D
Limited Quantities: 1 L

AIR (ICAO/IATA) ERG Code 3HP

SECTION 15. REGULATORY INFORMATION

15.1. US Federal Regulations

15.1 Chemical safety assessment
A chemical safety assessment has not been conducted.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

SECTION 16. OTHER INFORMATION:

Revision Summary: All Sections: New GHS Format

SDS DATE REVISED: 01/05/2016

HMIS III Ratings:

HMIS III®

Health	2
Flamability	3
Physical Hazard	0
Personal Protection	H

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