



MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication
And WHIMS Standard 29 CFR 1910-1200

Print Date: May 2010

Product Name: GEOTHERMAL-M

Product Number: 01-159/160

I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: ComStar International Inc.

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Address: 20-45 128th Street, College Point, NY 11356

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Chemical Name: Blended Formula

Synonym(s): Methanol, Methyl Alcohol, Carbinol

II - COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENTS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS NO.</u>
Methanol	200 ppm 260 mg/m3 TWA	200 ppm	67-56-1

III - HAZARDS IDENTIFICATION

HMIS Hazard Ratings: Health – 4, Flammability – 3, Chemical Reactivity – 0

NFPA Hazard Ratings: Health – 4, Flammability – 3, Chemical Reactivity – 0

NOTE: HMIS and NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

IV - FIRST-AID MEASURES

DANGER! Poisonous-get immediate medical attention upon contact, inhalation or ingestion.

Inhalation: If symptomatic, move to fresh air. Get medical attention immediately..

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

Skin: Remove contaminated clothing, wash affected skin with soap and water immediately. Get medical attention.

Ingestion: Drink plenty of water. Get immediate medical attention.

V - FIRE FIGHTING MEASURES

Flash Point (°F): 51°F **Flammability Limit:** **LEL** 3.0 **UEL** 21.0

Extinguishing Media: Dry chemical, carbon dioxide (CO₂), universal foams, water fog.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Unknown

Unusual Fire and Exposure Hazards: None known. Keep product cool.

VI - ACCIDENTAL RELEASE MEASURES

DANGER: Extremely flammable and poisonous

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
For Large Spills: Contain and Flush spill area with water spray. Prevent run-off from entering drains, sewers, or streams, collect run-off.

VII - HANDLING AND STORAGE

Personal Precautionary Measures: Avoid contact with eyes and skin. Wash thoroughly after handling. Do not breathe vapors or fumes. Use protective gloves and clothing.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials, alkalis and acids. Store away from heat, sunlight and moisture.

VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

ACGIH Threshold Limit Value (TLV): see section II

OSHA (USA) Permissible Exposure Limit (PEL): see section II

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to an acceptable level, a NIOSH approved respirator must be worn.

Respirator Type: Organic vapor. If respirators are used, a program should be instituted to assure Compliance with OSHA Standard 29 CFR 1910.134.

Eye Protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection: It is a good industrial hygiene practice to minimize skin contact.

Recommended Decontamination Facilities: Eye bath, washing facilities

IX - PHYSICAL AND CHEMICAL PROPERTIES

Color: Clear liquid

Odor: Alcohol odor

Odor Threshold: not available

Specific Gravity (H₂O = 1): 7910g/cm³

Vapor Pressure at 70° F: 128 mm hg

Vapor Density (Air = 1): >1

Evaporation Rate (n-butyl acetate = 1): <1

Volatile Fraction by Weight: N/A

Boiling Point: 173° F

Melting Point: None

Viscosity at 25° C (77° F): 0.55 cp

Solubility in Water: miscible

Octanol/ Water Partition Coefficient: not available

Lower Explosive Limit 135° C (275° F): See section V

Upper Explosive Limit 199° C (390° F): See section V

Auto ignition Temperature (ASTM D 2155): 11 deg. C

X - STABILITY AND REACTIVITY

Stability: Product is considered stable under normal conditions.

Incompatibility: strong acids, oxidizing and alkali agents, peroxides

Hazardous Polymerization: will not occur.

XI - TOXICOLOGICAL INFORMATION

Inhalation: Use OSHA respirator for usual industrial handling by trained personnel.

Eyes: Causes irritation.

Skin: Low hazard for usual industrial handling by trained personnel, see label warnings.

Ingestion: **Considered** toxic

Acute Toxicity Data:

Oral LD-50 (rabbit): 5628 ml/kg (rat)

Inhalation LC-50: >64,000 ppm/4H (rat)

XII - ECOLOGICAL INFORMATION

Introduction: Extremely Flammable. Vapors may explode. Poisonous. Leaks should be stopped. Spills should be contained and cleaned up immediately.

Large liquid spills should be removed by using a vacuum truck. Solid spills should be scooped up and placed in approved containers for disposal. The spill area should then be flushed with water followed by liberal covering of sodium bicarbonate. All clean-up material should be removed and placed in approved containers, labeled and stored in a safe place to await proper treatment or disposal. Spills on areas other than pavement, e.g., dirt or sand, may be handled by removing the affected soils and placing in approved containers. Persons performing clean-up work should wear adequate personal protective equipment and clothing. Spills or releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

XIII - DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Check with state and local officials before disposal.

XIV - TRANSPORT INFORMATION

Proper Shipping Name: Methanol UN1230, Packing Gp II, Class: 3 Flammable Liquid

DOT (USA) Status: See above

TDG (Canada) Status: See above

Air – International Civil Aviation Organization (ICAO)

ICAO Status: Check with air freight forwarder for ruling.

Sea – International Maritime Dangerous Goods (IMDG)

IMDG Status: See above

XV - REGULATORY INFORMATION

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 910.1200.

OSHA Classification: Hazardous as per Hazard Communication Standard 29 CFR 1910.1200

Material(s) known to the State of California to cause cancer: yes

Material(s) known to the State of California to cause adverse reproductive effects: Yes

Material is on Right to know Lists in California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: Subject to reporting.

SARA (U.S.A.) Sections 311 and 312 hazard classification(s): Immediate/delayed health: Yes, FIRE: Yes, Reactivity: No

NOTE: *The opinions expressed are those of qualified experts within ComStar International Inc. We believe that the information contained is current as of the date of the Material Safety Data Sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of ComStar International Inc., it is the user's obligation to determine the conditions of safe use of the product.*