



MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION DATA

Innovation Fuels
126 Passaic St.
Newark NJ 07104

EMERGENCY TELEPHONE NUMBER:
8:00 AM - 5:00 PM EST
(973) 482-2400

EB-Gly.1.1

EFFECTIVE DATE: 10/01/07

Common Name: Crude Glycerin
Chemical Name: Propantriol, 1,2,3-Propantriol
Formula: HO-CH₂-CH(OH)-CH₂-OH
Molecular Weight: 92.09 g/Mol
Chemical Family: CAS No: 56-81-5

MSDS REVIEWED BY Tom Grossberger, Technical Director

SECTION 2 – INGREDIENTS AND HAZARDOUS CLASSIFICATION

Hazardous Components	Percent	CAS No.	OSHA PEL	ACGIH PEL
Glycerin	65-85%	56-81-5	15 mg/m ³ (mist)	10 mg/m ³ (mist)
Methanol	12-31%	67-56-1	TWA 200ppm	TWA 200ppm
Sodium Methlyate	4 – 8%	124-1-4	Not Established	Not Established

SECTION 3 - CHARACTERISTICS

Solubility in Water: Miscible
Appearance and Odor: Clear, "Tea" Colored Liquid

SECTION 4 - FIRE AND EXPLOSION DATA

Flammability of the Product: Flammable.
Auto-Ignition Temperature: The lowest known value is 463.89°C (867°F) (Methyl alcohol).
Flash Points: The lowest known value is CLOSED CUP: 12°C (53.6°F). (Methyl alcohol)
Flammable Limits: The greatest known range is LOWER: 6% UPPER: 36.5% (Methyl alcohol)

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:

Highly flammable in presence of open flames and sparks, of heat, of combustible materials.

Flammable in presence of moisture.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

Flammable liquid, soluble or dispersed in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:

Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition, it emits acrid smoke and irritating fumes.

CAUTION -

MAY BURN WITH NEAR INVISIBLE FLAME (Methyl alcohol)

Special Remarks on Explosion Hazards: Not available.

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SECTION 5 – ACCIDENTAL RELEASE MEASURES
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Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:

Flammable liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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SECTION 6 – HANDLING AND STORAGE
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Precautions:

Keep under inert atmosphere. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment If ingested,

seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep

away from incompatibles such as oxidizing agents, moisture.

Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

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SECTION 7 – EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

Methyl alcohol

TWA: 200 STEL: 250 (ppm) from ACGIH (TLV) [1995]

TWA: 262 STEL: 328 (mg/m3) from ACGIH [1995]

Consult local authorities for acceptable exposure limits.

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SECTION 8 - HEALTH HAZARD DATA
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ROUTES OF EXPOSURE

INHALATION: Inhaling mist or spray is irritating to the upper respiratory tract and depending on the severity of exposure, may cause tissue damage. Wear protective gear when not using with adequate ventilation.

SKIN CONTACT: This product is irritating to tissues contacted and may cause skin damage.

SKIN ABSORPTION: See SKIN CONTACT above.

EYE CONTACT: This product is irritating to eye tissues on contact. May cause permanent eye damage. Seek

professional medical attention.

INGESTION: This product, if swallowed, will be irritating to the mouth, throat, and stomach.

EFFECTS OF OVEREXPOSURE

ACUTE: Irritating to all body tissues with which it comes in contact.

CHRONIC: Repeated or prolonged exposure may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

EYES: IMMEDIATELY flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and foot wear, and wash clothing before reuse. Discard any clothing that cannot be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

INGESTION: NEVER give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.

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SECTION 9 - SPECIAL HANDLING PROCEDURES
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RESPIRATORY: Respiration protection is not required under normal use. Use NIOSH/MSHA approved respirator where mist or spray may be generated above TLV limit.

VENTILATION: Use adequate local exhaust ventilation where mist or spray may be generated, to maintain level below the TLV limit.

GLOVES: Impervious gloves should be worn (ex. rubber or neoprene).

EYES: Chemical safety goggles and/or face shield.

OTHER: Chemically resistant shoes and apron. Safety showers and eyewash facilities should be accessible. All contaminated clothing should be washed with soap and water, and dried before reuse.

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SECTION 10 - SPECIAL PRECAUTIONS

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HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with skin and eyes. Wash thoroughly after handling material. Store in a cool, dry area, in a closed container when not being used. DO NOT STORE with strong acids and oxidizers.

OTHER PRECAUTIONS:

Keep container tightly closed when not in use. Wash thoroughly after handling containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Containers must not be used for any other purpose.

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