



Hydromet 50 Liquid

SECTION 1. IDENTIFICATION

Product Identifier	Hydromet 50 Liquid
Other Means of Identification	Triol Liquid Resins
Product Family	Propanetriol
Recommended Use	Mixed with another component to form a corrosion-resistant mortar.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown, NY, 13601, (315) 782-3000, www.stebbinseng.com
Emergency Phone No.	Chemtrec - Within North America, 1-800-424-9300, 24 hours Stebbins 24 Hour Contact-, 1-315-788-6624
SDS No.	044

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Propanetriol	56-81-5	>99%		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Clean clothing, shoes and leather goods. Get medical advice or attention if you feel unwell or are concerned. If skin irritation occurs, get medical advice or attention.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

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Most Important Symptoms and Effects, Acute and Delayed

If on skin: may cause mild irritation. If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Dike spilled product to prevent runoff. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Only use where there is adequate ventilation. Wash hands thoroughly after handling this material. Do not get in eyes, on skin or on clothing.

Conditions for Safe Storage

Store in a closed container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH TWA: 10 mg/m³ (mist)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average.

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Wear approved safety glasses.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

No PPE is required for handling this product. However, the powder used with this product to create Hydromet 50 Mortar contains lead and does require PPE. Please consult the SDS for Hydromet 50 Powder before use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Clear liquid.

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Odour	Odourless
Odour Threshold	Not applicable
pH	~ 8; Neutral
Melting Point/Freezing Point	64.6 °F (18.1 °C) (melting)
Boiling point/Initial boiling point	554 °F (290 °C)
Flash Point	351 °F (177 °C) (open cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	< 1 mm Hg (0 kPa)
Vapour Density (air = 1)	3.1
Relative Density (water = 1)	1.261 at 68 °F (20 °C)
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	-1.76
Auto-ignition Temperature	739 °F (393 °C)
Decomposition Temperature	Not available
Viscosity	954 centipoises at 77 °F (25 °C) (dynamic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Incompatible materials.

Incompatible Materials

Releases excessive heat on contact with: strong reducing agents (e.g. hydrides). Reacts violently with: acid anhydrides (e.g. acetic anhydride), strong reducing agents (e.g. hydrides).

Hazardous Decomposition Products

Toxic chemicals.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact.

Acute Toxicity

LC50 (Inhalation)

LC50 inhalation (rat): >570 mg/m³, 1 hour

LD50 (Oral)

LD50 oral (rat): 5.57 g/kg

LD50 (Dermal)

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LD50 subcutaneous (rat): 0.1 g/kg
LD50 intraperitoneal (rat): 4.42 g/kg

Skin Corrosion/Irritation

Human experience shows mild irritation.

Serious Eye Damage/Irritation

Human experience and animal tests show serious eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause nose and throat irritation.

Skin Absorption

No information was located.

Ingestion

If small amounts are swallowed not harmful based on human experience.

If large amounts are swallowed may be harmful based on human experience. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Aspiration Hazard

May cause lung damage if aspirated based on existing animal tests and physical and chemical properties.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Not harmful based on studies in people and animals.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

Not known to cause effects on or via lactation.

Germ Cell Mutagenicity

Not known to be a mutagen.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Cell multiplication inhibition test, algae (*Microcystis aeruginosa*): 2900 mg/L

Cell multiplication inhibition test, protozoa (*Entosiphon sulcatum*): 3200 mg/L

LC50 Fish (Goldfish): >5000 mg/L for 24 hours

LC50 Crustacea (*Daphnia magna*): freshwater, static, 20-22°C, >10000 mg/L for 24 hours

Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

Fish Bioconcentration Factor: 3.

Mobility in Soil

If released into the environment, this product can move rapidly through the soil.

SECTION 13. DISPOSAL CONSIDERATIONS

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Disposal Methods

This product is a non-hazardous waste. Disposal into the regular trash is acceptable. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

SECTION 14. TRANSPORT INFORMATION

This section is not required by WHMIS 2015. This section is not required by OSHA HCS 2012.

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT		Non-Regulated		
IATA (Air)		Non-Regulated		
IMO (Marine)		Non-Regulated		
Canadian TDG		Non-Regulated		

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

Not specifically listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

Massachusetts Right To Know. (Propanetriol)

Pennsylvania Right To Know. (Propanetriol)

SECTION 16. OTHER INFORMATION

SDS Prepared By B.E.R.

Phone No. (315) 782-3000

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Revision Indicators Revision 4
The following SDS content was changed on May 05, 2020:
reviewed and approved

Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration

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References

RTECS® = Registry of Toxic Effects of Chemical Substances
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Disclaimer

NOTE: The information contained herein is, to the best of our knowledge, accurate and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or the results to be obtained from the use thereof.