



# SAFETY DATA SHEET

## HEP

### -1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

**Identification of Preparation:** HEP  
**Date of Safety Data Sheet:** November 7, 2016  
**Use of Preparation:** Cleaner.  
**Company Identification:** Mega-Lab Manufacturing Co. Ltd.  
25 Planchet Road  
Concord, Ontario L4K 2C5

**Company Emergency Telephone Number** Emergency Phone: 905-532-9000

**Transportation Emergency Telephone Number** CANUTEC 613-996-6666 or \* 666 for cell phone

### 2. HAZARD IDENTIFICATION

**Emergency Overview:**

**OSHA / WHMIS 2015 Hazards**

Classification of the Substance or Mixture

**GHS-US/Canadian classification:**

**Physical hazards**

Not Classified

**Health hazards**

Skin Corrosion 1A - H314

Eye Damage 1 - H318

**Environmental hazards**

Not Classified

**Label Elements**

**GHS-US Labeling**

**Hazard Pictograms (GHS):**



**Signal Word (GHS):** Danger

**Hazard Statements (GHS):**

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

**Precautionary Statements (GHS):**

P260 Do not breathe mist.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response Statements (GHS):**



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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 Get immediate medical advice/attention.

P501 Dispose of contents/container in accordance with local regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Description:** Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Ethylene glycol monobutyl ether	111-76-2	3-7	Flammable liquid Category 4 – H227 Skin Irritation Category 2A-H315
Sodium metasilicate pentahydrate	10213-79-3	1-5	Skin Corrosion Category 1A - H314 Eye damage / Irritant Category 1 H318
Tetra potassium pyrophosphate	7320-34-5	1-5	Eye irritation Category 2A-H315 Skin irritation Category 2A H319
Tetra sodium EDTA	64-02-8	1-5	Eye irritation Category 2A-H315 Skin irritation Category 2A H319

### 4. FIRST AID MEASURES

<b>General Measures:</b>	Remove to fresh air. If symptoms persist consult physician.
<b>Eye Contact:</b>	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
<b>Skin Contact:</b>	Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.
<b>Ingestion:</b>	Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.
<b>Inhalation:</b>	If unconscious, place in recovery position and consult a doctor. If symptoms persist, call a physician.
<b>Notes to Physician:</b>	Treatment based on judgment of attending physician.

### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Any standard extinguishing media (alcohol foam, water spray or fog, CO2 dry chemical, etc.).
<b>Unsuitable extinguishing media:</b>	High volume / water jet.
<b>Special exposure hazards</b>	Decomposition releases thermal irritant gases.
<b>Special safety equipment:</b>	Self-contained positive pressure breathing apparatus and protective clothing.
<b>Fire and explosion:</b>	Not flammable. No explosion hazard.
<b>Further information</b>	Keep containers and surrounding cool with water spray.



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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

#### Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

#### Information about fire - and explosion protection:

Keep respiratory protective device available.

No special measures required.

#### Conditions for safe storage, including any incompatibilities

**Storage:** Acids, Oxidizers, reducing agents.

#### Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

#### Information about storage in one common storage facility:

Do not store together with strong acids.

Store away from oxidizing agents.

Store away from foodstuffs.

#### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Keep container tightly sealed.

**Specific end use(s)** No further relevant information available.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Appropriate Engineering Controls:

**Engineering Measures** Showers. Eyewash Stations. Ventilation Systems.



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<b>Respiratory protection:</b>	Use local exhaust or dilution ventilation.
<b>Hand protection:</b>	Chemical resistant gloves.
<b>Eye protection:</b>	Safety goggles or full face shield.
<b>Skin protection:</b>	Use body-covering impervious clothing.
<b>Working hygiene:</b>	Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.
<b>Exposure guidelines:</b>	None.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Odour</b>	Typical
<b>Appearance</b>	Clear liquid.	<b>Odour Threshold</b>	No data available.
<b>Colour</b>	Purple	<b>Remarks/Method</b>	
<b>Property</b>	<b>Values</b>	<b>Remarks/Method</b>	
<b>pH</b>	13.5 +/- 0.7	None known	
<b>Melting/Freezing Point</b>	No data available	None known	
<b>Boiling Point/Range</b>	No data available	None known	
<b>Flash Point</b>	Not applicable.	None known	
<b>Evaporation Rate</b>	Similar	None known	
<b>Flammability ( solid, gas)</b>	Not flammable	None known	
<b>Flammability Limit in Air:</b>			
<b>Upper Limit</b>	No data available	None known	
<b>Lower Limit</b>	No data available	None known	
<b>Vapour Pressure</b>	No data available	None known	
<b>Vapour density</b>	No data available	None known	
<b>Specific Gravity</b>	1.05 g/cm <sup>3</sup>		
<b>Water Solubility</b>	Soluble in water.	None known	
<b>Solubility Other Solvents</b>	No data available	None known	
<b>Partition Coefficient:</b>			
<b>n-octanol/water</b>	No data available	None known	
<b>Autoignition temperature</b>	No data available	None known	
<b>Decomposition Temperature</b>	No data available	None known	
<b>Kinematic Viscosity</b>	No data available	None known	
<b>Dynamic Viscosity</b>	No data available	None known	
<b>Explosive Properties</b>	No data available	None known	
<b>Oxidizing Properties</b>	No data available	None known	
<b>Other Properties:</b>			
<b>Softening Point</b>	No data available		
<b>VOC Content %</b>	No data available		
<b>Particle Size</b>	No data available		
<b>Particle Size Distribution</b>	No data available		

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions (see



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Thermal decomposition/conditions to avoid:	section 7).
Possibility of hazardous reactions	No decomposition if used and stored according to specifications.
Conditions to avoid	Hazardous polymerization will not occur. Direct sunlight. Extremely high or low temperatures. Contact with metallic substances.
Hazardous decomposition products	Carbon oxides (CO, CO <sub>2</sub> ). Sodium oxides.
Materials to avoid	Reducing agents. Strong acids.
Hazardous polymerization	Will not occur

### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

**Acute toxicity:** Not Classified.

#### LD/LC50 values relevant for classification:

Not available.

**On the skin:** Causes skin corrosion.

**On the eye:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified.

#### Additional toxicological information:

**Carcinogenicity:**

**Chemical Name** None

### 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	Not classified
<b>Persistence and Degradability:</b>	Not available
<b>Bioaccumulative Potential:</b>	Not available
<b>Mobility in Soil:</b>	Not available.
<b>Other Adverse Effects</b>	Not available.
<b>Other Information:</b>	Avoid release to the environment.

### 13. DISPOSAL

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

### 14. TRANSPORTATION INFORMATION

**Canadian T.D.G.:** Not Regulated

**US DOT:** Not Regulated

**Water Transportation (IMDG):** Not Regulated

**Air Transportation (IATA):** Not Regulated



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### 15. REGULATORY INFORMATION

#### Occupational Health & Safety Regulations:

#### WHMIS 1988 Classification:

Class D Division 2B - Toxic material causing other toxic effects

Class E - Corrosive material



**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

#### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	-
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

#### Legend:

**TSCA** - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### U.S. State Regulations

##### California Proposition 65

This product does not contain any Proposition 65 chemicals.

##### HMIS III Rating

Health : 3 Hazard

Flammability : 0 Minimal Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012 and WHMIS



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2015)

### 16. OTHER INFORMATION

**Prepared By:** Technical Department

**Issuing Date:** November 7, 2016

**Disclaimer:**

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**End of Safety Data Sheet**