



# SAFETY DATA SHEET

## LIQUID PRESOAK

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

**Identification of Preparation:** LIQUID PRESOAK  
**Date of Safety Data Sheet:** March 3, 2023  
**Use of Preparation:** Warewash Presoak  
**Company Identification:** Mega-Lab Manufacturing Co. Ltd.  
3-25 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 substance or mixture**

**GHS-US/Canadian classification:**

**GHS Hazards**

Skin Irritation Category 2 H315

Eye Irritation Category 2B H320

**Label Elements**

**GHS-US/ Canada Labeling**

**Hazard Pictograms (GHS):**



**Signal Word (GHS):** Warning

**Hazard Statements (GHS):**

H315: May cause skin irritation.

H320: Causes eye irritation.

**Precautionary Statements (GHS):**

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

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

**Response Statements (GHS):**

P302+P350: IF ON SKIN: Wash with plenty of soap and water.

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



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Sodium Hypochlorite	7681-52-9	1-5	Corrosive to Metals Category 1 - H290 Acute Toxicity (Oral) Category 2 - H300 Skin Corrosion/Irritation Category 1A – H314 Serious Eye Damage / Eye Irritant Category 1– H318 Aquatic Hazard (Acute) Category 3 – H402
Potassium Hydroxide	1310-58-3	1-5	Corrosive to Metals Category 1 - H290 Acute Toxicity (Oral) Category 4 - H302 Skin Corrosion/Irritation Category 1A – H314 Serious Eye Damage / Eye Irritant Category 1– H318 Aquatic Hazard (Acute) Category 3 – H402

### 4. FIRST AID MEASURES

<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. Immediately call a POISON CENTRE or doctor/physician.
<b>Inhalation:</b>	Remove to fresh air. If symptoms persist, consult a doctor.
<b>Notes to Physician:</b>	Treatment based on judgment of attending physician.
<b>Most important symptoms and effects, both acute and delayed:</b>	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

### 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/jet water.
<b>Special exposure hazards:</b>	Thermal decomposition releases irritating 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.

### 6. ACCIDENTAL RELEASE MEASURES

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

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**General Measures:** Do not get in eyes. Avoid prolonged contact with skin and 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:**

Strong acids and bases; Oxidizing agents; Ether, ammonia compounds, hydrogen peroxide, all acids, alum, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulfite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. Do not mix this product with any of the foregoing or hazardous gases can result.

**Storage:**

**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.

Avoid storage near extreme heat, ignition sources or open flame.

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

Do not store together with alkaline products or 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.



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Appropriate Engineering Controls:

##### Engineering Measures

Showers. Eyewash Stations. Ventilation Systems.

##### Respiratory protection:

Use local exhaust or dilution ventilation.

##### Hand protection:

Chemical resistant gloves.

##### Eye protection:

Safety goggles or full-face shield.

##### Skin protection:

Use body-covering impervious clothing.

##### Working hygiene:

Take usual precautions when handling. Workers should wash hands before eating, drinking, or smoking.

##### Exposure guidelines:

None.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and Chemical Properties

<u>Physical State</u>	Liquid	<u>Odour</u>	Chlorine
<u>Appearance</u>	Clear	<u>Odour Threshold</u>	No data available.
<u>Colour</u>	Blue	<u>Remarks/Method</u>	
<u>Property</u>	<u>Values</u>		
pH	12.0-12.5	None known	
Melting/Freezing Point	No data available	None known	
Boiling Point/Range	No data available	None known	
Flash Point	Not applicable.	None known	
Evaporation Rate	Similar	None known	
Flammability (solid, gas)	Not flammable	None known	
Flammability Limit in Air:			
Upper Limit	No data available	None known	
Lower Limit	No data available	None known	
Vapour Pressure	No data available	None known	
Vapour density	No data available	None known	
Specific Gravity	1.02 -1.03 g/cm <sup>3</sup>		
Water Solubility	Soluble in water.	None known	
Solubility Other Solvents	No data available	None known	
Partition Coefficient:			
n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition Temperature	No data available	None known	
Kinematic Viscosity	No data available	None known	
Dynamic Viscosity	No data available	None known	
Explosive Properties	No data available	None known	
Oxidizing Properties	No data available	None known	
<u>Other Properties:</u>			
Softening Point	No data available		
VOC Content %	No data available		



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Particle Size No data available  
Particle Size Distribution No data available

### 10. STABILITY AND REACTIVITY

**Reactivity** The substance decomposes on heating, on contact with acids and under influence of light producing toxic and corrosive gases including. The substance is a strong oxidant and reacts with combustible and reducing materials

**Chemical stability** Stable under normal conditions of use and storage; Stability decreases with increased concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper, and iron.

**Thermal decomposition/conditions to avoid:** Direct sunlight. Extremely high or low temperatures. Contact with metallic substances. Exposure to air or moisture over prolonged periods; Excessive heat, exposure to light, reduced alkalinity, and contamination of any kind. Reduced alkalinity or contamination can result in evolution of chlorine (toxic) gas.

**Possibility of hazardous reactions** Decrease in pH such as by mixing with other than water, and contamination with items mentioned below as incompatible can result in evolution of chlorine (toxic) gas.

**Conditions to avoid** Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid contact with oxidizers.  
Strong acids and bases; Oxidizing agents; Ether, ammonia compounds, hydrogen peroxide, all acids, alum, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulfite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. Do not mix this product with any of the foregoing or hazardous gases can result.

**Hazardous decomposition products** Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g., chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g., aqua ammonia) will generate heat.

**Materials to avoid** Oxidizing agents, acids.

**Hazardous polymerization** Will not occur

### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

**Acute toxicity:** Not classified.

#### LD/LC50 values relevant for classification

##### Sodium Hypochlorite CAS # 7681-52-9:

LD 50 (Oral/Rat) 8800 mg/kg (12.5%)

##### Potassium Hydroxide CAS # 1310-58-3:

LD 50 (Oral/Rat) 273 mg/Kg

#### Primary irritant effect:

**On the skin:** Irritating.

**On the eye:** Irritating.

**Ingestion:** Unclassified.

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**Inhalation:** Unclassified.

**Sensitization:** No known effects.

**Additional toxicological information:**

**Carcinogenicity:**

**Chemical Name** None

**Reproductive toxicity:** No known effects.

**Aspiration toxicity:** No known effects.

**Additional toxicological information:** The product shows the following dangers according to the calculation method:  
Irritating to eyes and skin.

### 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	Not available.
<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 Material

**U.S. Department of Transportation (DOT):** Not Regulated Material

**Water Transportation (IMO):** Not Regulated Material

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

### 15. REGULATION

**Occupational Health & Safety Regulations:**

**WHMIS 1988 Classification:** Class D - Division 2B, Class E,



**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).



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### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	-
PICCS	Complies
AICS	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 Prop. 65

This product does not contain any Proposition 65 chemicals.

#### HMIS III Rating

Health: 3 Serious Hazard

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

Personal Protection: C

SDS US (GHS HazCom 2012 and WHMIS 2015)

## 16. OTHER INFORMATION

**Prepared By:** Technical Department

**Issuing Date:** March 3, 2023

### **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.



## **SAFETY DATA SHEET**

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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**