PS70 – Chlorinated Pre-Soak

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

Identification of Preparation:	PS70
Date of Safety Data Sheet:	February 24, 2020
Use of Preparation:	Chlorinated Pre-Soak
Company Identification:	Trichem Solutions Inc. 7506 Bath Road Mississauga, Ontario L4T 1L2 OFFICE: 905-672-8686
Company Emergency Telephone Number	Emergency Phone: 905-672-8686
Transportation Emergency Telephone Number	CANUTEC 613-996-6666 or * 666 for cell phone

2. HAZARD IDENTIFICATION

Emergency Overview:
OSHA/ WHMIS 2015 Hazards:
Classification of substances or mixture
GHS-US/ Canadian classification:
Corrosive to Metals Category 1 H290
Acute Toxicity (Oral) Category 4 H302
Skin Corrosive Category 1 H314
Eye Damage Category 1 H318
Label Elements
GHS-US Labeling
Hazard Pictograms (GHS):

Signal Word (GHS): Danger
Hazard Statements (GHS):
H290: May be corrosive to metals
H302: Harmful if swallowed
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage

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Precautionary Statements (GHS):
P260: Do not breathe mist, spray, and vapors.
P264: Wash hands, forearms, and exposed areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear face protection, protective clothing and eye protection.
Response Statements (GHS):
P301+P310+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	5-10	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
Sodium Tripoly Phosphate	7758-29-4	1-5	Skin Corrosion/Irritation Category 2 – H315 Serious Eye Damage/Irritation Category 2A – H319
Sodium Silicate	1344-09-8	5-10	Skin Corrosion/Irritation Category 2 – H315 Serious Eye Damage/Irritation Category 2A – H319

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4. FIRST AID MEASURES

Eye Contact:	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin Contact:	Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.
Ingestion:	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.
Inhalation:	Remove to fresh air. If symptoms persist, consult a doctor.
Notes to Physician:	Treatment based on judgment of attending physician.
Most Important symptoms and effects, both acute and delayed:	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Any standard extinguishing media (alcohol foam, water spray or fog, CO_2 dry chemical, etc.).
Unsuitable extinguishing media:	High volume/jet water.
Special exposure hazards:	Thermal decomposition releases irritating gases.
Special safety equipment:	Self-contained positive pressure breathing apparatus and protective clothing.
Fire and explosion	Not flammable. No explosion hazard.
Further information	Keep containers and surrounding cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

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.

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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.

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.

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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

Physical State	Liquid		
Appearance	Clear	Odour	Chlorine
Colour	Amber	Odour Threshold	No data available.

Property	Values	Remarks/Method
pH	>12.0	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	1.20-1.25 g/cm3	
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 date available	None known

Other Properties:

Softening Point	No data available
VOC Content %	No data available
Particle Size	No data available
Particle Size Distribution	No data available

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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. 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.
Possibility of hazardous reactions	Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid contact with oxidizers.
Conditions to avoid	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

Sodium Tripoly Phosphate CAS # 7758-29-4:
LD 50 (Oral/Rat) 2000 mg/Kg
Sodium Silicate CAS # 1344-09-8:
LD 50 (Oral/Rat) 1300 mg/Kg
Primary irritant effect:
On the skin: Strong caustic effect
On the eye: Strong caustic effect.
Ingestion: Unclassified.
Inhalation: Unclassified.
Additional toxicological information: The product shows the following dangers according to the calculation method:
Corrosive to eye.
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Additional toxicological information:
Carcinogenicity:
Chemical Name None

12. ECOLOGICAL INFORMATION

Toxicity:	Not available.
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available.
Other Adverse Effects	Not available.
Other Information:	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.

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14. TRANSPORTATION INFORMATION

Canadian T.D.G.: Regulated Material
Proper Shipping Name: Corrosive liquid, N.O.S.
Contains: Potassium Hydroxide and Sodium Hypochlorite
Hazard Class: 8
ID Number: UN 1760
Packing Group: II

U.S. Department of Transportation (DOT): Regulated Material
Proper Shipping Name: Corrosive liquid, N.O.S.
Contains: Potassium Hydroxide and Sodium Hypochlorite
Hazard Class: 8
ID Number: UN 1760
Packing Group: II

Water Transportation (IMO): Regulated Material
Proper Shipping Name: Corrosive liquid, N.O.S.
Contains: Potassium Hydroxide and Sodium Hypochlorite
Hazard Class: 8
ID Number: UN 1760
Packing Group: II

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Air Transportation (IATA): Regulated Material
Proper Shipping Name: Corrosive liquid, N.O.S.
Contains: Potassium Hydroxide and Sodium Hypochlorite
Hazard Class: 8
ID Number: UN 1760
Packing Group: II

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).

International Inventories

TSCA	Complies
DSL/NDSL	Compiles
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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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 Trichem Solutions Inc.
7506 Bath Road
Mississauga, Ontario
L4T 1L2
905-672-8686

Issuing Date: February 24, 2020

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