



Specialty Product

DESCRIPTION

Liquid Presoak is a specially formulated, highly concentrated presoak to loosen food soil from stainless steel cutlery and provide clean shiny results. Also used for destaining coffee cups, tea pots and cutting boards.

Liquid Presoak contains chlorine and when used as directed will provide more than 150 ppm chlorine.

SPECIAL INFORMATION

It is recommended that waterproof rubber gloves be worn. Do not use for silver plated flatware.

DIRECTIONS

Manual Presoaking:

Half fill buspan with hot water, then add 1 - 1.5 oz (30 - 45 ml) (1:33 - 1:22) *Liquid Presoak*. Soaking time should be 15 to 30 minutes. Change presoak water every two hours of continuous use.

PHYSICAL DATA

Appearance	Clear liquid
Color	Yellow
Foam	None
Odor	Slight chlorine
pH	12.5 - 13.5
Chlorine %	1.6 minimum

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **LIQUID PRESOAK**

WHMIS CODE: D2B, E
 Proper Shipping Name: CORROSIVE LIQUID, BASIC
 INORGANIC, N.O.S.
 (potassium hydroxide, sodium hypochlorite)
 Hazard Class: Class 8, P.G. II
 UN Number: UN 3266

HMIS	
3	Health
0	Flammability
0	Reactivity
C	Personal

Product Use: Chlorinated dish presoak.

A=Goggles, B=Goggles & Gloves
 C=Goggles, Gloves and Apron

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ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
SODIUM HYPOCHLORITE OSHA (PEL), ACGIH (TLV) = 1 ppm (FOR CHLORINE GAS) LD50 (oral rat) Not Available LD50 (dermal) No Data LC50 No Data	7681-52-9	1.0 - 5.0	See Below	See Below
POTASSIUM HYDROXIDE LD50 (oral rat) 273 mg/kg LD50 (dermal) Not Available LC50 Not Available	1310-58-3	5.0 - 10.0	N/A	2 ppm

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear yellow, chlorine odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 13.0 – 14.0
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.11 @ 20°C
Coeff. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None combustible. **Sensitivity to Mechanical Impact:** None. **Conditions of Flammability:** None.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Extinguishing Media: Product is not flammable. Use extinguishing media suitable for surrounding fires.
Unusual Fire and Explosion Hazards: Sodium Hypochlorite decomposes when heated to high temperatures and may release chlorine fumes. Also, prolonged contact with reactive metals (i.e. aluminum, tin, zinc, etc.) may form flammable hydrogen gas in confined areas.
Hazardous Combustion Products: Oxides of carbon and sodium, and decomposition may produce toxic chlorine gas vapors.
Special Fire Fighting: Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Unstable under normal storage conditions, Sodium Hypochlorite solution decompose slowly. Decomposition accelerated by heat (above 40°C) and light.
Hazardous Polymerization: Will not Occur.
Incompatibility (material to avoid): Strong acids, reducing agents, ammonia solutions, organic compounds, heavy metals (i.e. iron, lead, tin, etc.) and their salts.
Hazardous Decomposition Products: Thermal decomposition products are toxic and may include oxide of chlorine and sodium.
Conditions to Avoid: High temperature, spark, open flame.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, and inhalation.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** Non hazardous by WHMIS criteria.
Sensitization: None known. **Mutagenicity:** Result of tests in animal has been negative.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure can cause skin damage or dermatitis, respiratory disorder, or lung damage.
Effects of Acute Exposure to Product: Product exposure can cause severe burns or damage to skin and eyes. Inhalation of vapors or mists causes respiratory discomfort such as breathing difficulties, burning, coughing etc. Ingestion may cause gastrointestinal and abdominal discomfort.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: If product is misted or sprayed, or used in a confined area, use a NIOSH/MSHA approved dust/mist respirator.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Butyl rubber, nitrile or neoprene gloves.
Eye Protection: Full face-shield and chemical safety goggles when there is potential for contact.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin, and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Vent caps may be required to prevent a build-up of pressure that could cause containers to burst. Do not mix with any other chemicals. Store below 29 °C (84°F). Keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Carefully neutralize by adding 35% hydrogen peroxide at one pint per pound of hypochlorite. Spilled material may cause floor and contact surface slippery. Collect product for recovery or disposal. Contain discharge by constructing dykes or absorbent if release to land or storm water runoff.
Waste Disposal Method: Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.
Special Shipping Information: Store at temperatures below 29°C (84°F) and keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
 If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division

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LAST UPDATE: Dec. 24, 2014

THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE