

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	Luminous
Product Use:	Chlorinated Presoak
Supplier Name and Address:	Corpack Canada 16 Seapark Drive, St. Catharines, ON L2M 6S6
Telephone:	: (289)707-7178
Emergency Telephone:	: CANUTEC (613) 996-6666

SECTION 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Physical State:	Amber liquid
GHS Classification:	
Skin Irritation:	Category 1C
Eye Irritation:	Category 1
Acute Toxicity:	Category 4
GHS Label Elements:	
Hazard Pictograms	



Signal Word:	Danger
Hazard Statements:	H302 Harmful if swallowed H312 Harmful in contact with skin H318 Causes serious and eye damage

Precautionary Statements:	<p>Prevention</p> <p>P102 Keep out of reach of children P262 Do not get in eyes, on skin, or on clothing P284 In case of inadequate ventilation wear respiratory protection</p> <p>Response</p> <p>P302 IF ON SKIN: Flush with plenty of water for at least 15 minutes P305 IF IN EYES: Flush with plenty of water for at least 15 minutes P332+P313 If skin irritation persists, get medical attention</p>
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Potential Health Effects:	
Inhalation	: Strongly irritating to the eyes; slightly irritating to the nose throat, and lungs. High concentration of vapours will cause irritation or if inhaled as a mist.
Skin	: Causes severe skin irritation Symptoms may be delayed.
Eyes	: Causes severe eye irritation
Ingestion	: Harmful or fatal if swallowed
Aggravated Medical Condition	: None known
Symptoms of Overexposure	: None known



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SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Concentration [%]
Silicic Acid, Sodium Salt	1344-09-8	5-10
Triphosphoric Acid, Pentasodium salt	7758-29-4	3-7
Sodiumhypochlorite	7681-52-9	0.5-1.5
Silicic Acid (h2sio3), Dipotassium Salt	10006-28-7	0.5-1.5

SECTION 4 - FIRST-AID MEASURES

General Advice	: Move out of dangerous area Consult a physician Show this Safety Data Sheet to the doctor in attendance
Inhalation	: Remove victim to fresh air. If symptoms persist, call a physician.
Skin Contact	: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Call physician immediately. Wash contaminated clothing before reuse.
Eye Contact	: IMMEDIATELY flush eyes with running water for at least 15 minutes keeping eyelids open. Remove contact lenses. Call physician if irritation persists
Ingestion	: Immediately call physician. DO NOT induce vomiting. Give several glasses of water. Never give anything by mouth if victim is unconscious or convulsing.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water fog, carbon dioxide, dry chemical
Specific hazards arising from the chemical	: Not available
Special protective actions for fire-fighters	: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Additional advice	: Not available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions	: Ventilate area of leak or spill. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment (Section 8). Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas.
Environmental precautions	: Prevent entry into sewers or streams. Dike if needed.
Methods and materials for containment/ cleaning up	: If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.
Additional advice	: None

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling	: Do not ingest. Do not get in eyes, on skin or on clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapour or mist. Wash thoroughly after handling
Conditions for safe storage	: Keep out of the reach of children. Keep container tightly closed. Keep container in a cool, well ventilated area. Do not store above 50°C
Other data	: Rinse work area after use. Keep out of reach of children. Avoid contamination of food. Wash hands thoroughly after handling

SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters	: None available
Engineering Controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. When working with concentrate have eyewash available.
Personal Protective Equipment	
Eye/face protection	: Safety glasses with side shields when there is potential for eye contact. Contact lenses should not be worn
Hand protection	: Nitrile or rubber gloves are recommended
Skin protection	: Protective coveralls or thick clothing that covers exposed skin
Respiratory protection	: Suitable breathing mask if mists or vapors are present
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice When using do not eat or drink When using do not smoke Wash hands before breaks and at the end of the workday

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	: Light amber liquid
Odor:	: Chlorine
Odor Threshold:	: Not available
pH:	: 12.4 (100%)
Melting point/ freezing point:	: Not available
Initial boiling point and boiling range:	: Not available
Flash point:	: >100°C
Evaporation rate:	: Not available
Flammability (solid, gas):	: Not available
Upper/lower flammability or explosive limits:	: Not available
Vapour pressure:	: Not available
Vapour density:	: Not available
Relative density (g/mL):	: 1.34
Water solubility:	: Very soluble
Solubility in other solvents:	: Not available
Partition coefficient: n-octanol/water:	: Not available
Auto-ignition temperature:	: Not available
Decomposition temperature:	: Not available
Viscosity:	: As water

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	: Product is stable
Chemical Stability	: Stable under normal conditions
Possibility of hazardous reactions	: Highly reactive with metals, acids. Mixing this product with acid or ammonia releases chlorine gas.
Conditions to avoid	: Do not mix with strong acids, reactive metals
Incompatible materials	: Not available
Hazardous decomposition products	: These products are halogenated compounds, hydrogen chloride, chlorine.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information	
Acute toxicity	: Not available
Skin Corrosion/ Irritation	: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Serious eye damage/irritation	: Severely irritating to eyes. Untreated contact may cause severe irritation or chemical burns.
Ingestion or Inhalation	: Harmful if swallowed. May cause burns to mouth, throat and stomach. Irritating to respiratory system.
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available
Toxicology Data for Ingredients	
Triphosphoric acid, Pentasodium Salt	
Acute oral toxicity	: LD50 oral, Rat: 3120mg/kg LD50 oral, Mouse: 3100 mg/kg LD50 dermal, Rabbit: >4640 mg/kg
Silicic acid, Sodium Salt	
Acute oral toxicity	: LD50 oral, Rat: 1960mg/kg LD50 dermal, Rabbit: <4640 mg/kg
Potassium Hydroxide	
Acute oral toxicity	: LD50 oral, Rat: 273 mg/kg
Sodium Hypochlorite	
Acute oral toxicity	: LD50 oral, Mouse: 5800 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

Product Information:

Ingredient Name	Species	Period	Result
Sodium Hypochlorite	Daphnia magna (EC50)	48 hour(s)	0.04 mg/l
	Daphnia magna (EC50)	48 hour(s)	0.17 mg/l
	Daphnia magna (EC50)	48 hour(s)	1.57 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.059 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.09 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.2 mg/l



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SECTION 13 - DISPOSAL CONSIDERATIONS

Product : Sanitary sewer or dry absorbent if available.
For large quantities, contact local environmental department or government authorities
Do not dispose in drains, waterways, or soil
Do not contaminate ponds, or ditches with chemical or the used container

SECTION 14 - TRANSPORT INFORMATION

UN Number : UN1719
UN Proper Shipping Name : Caustic Alkali Liquid N.O.S. (Potassium Metasilicate, Sodium Hypochlorite)
Transport hazard class(es) : Class 8
Packing group, if applicable : III
Environmental hazards : Not available
Special precautions for user : Not available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15 - REGULATORY INFORMATION

WHMIS Information: Class E: Corrosive material

SECTION 16 - OTHER INFORMATION

Prepared by: Technical Services
Telephone number: (905) 682-8888

Preparation date: January 2021

NOTICE: The data and information presented herein are based upon tests, research and reports which are considered by us to be reliable and believed to be accurate. The data and information are presented without warranty, guarantee or liability on our part, and are presented to the customer for his own consideration, investigation and verification. If user requires independent information on ingredients in this or any other material, we recommend contact with Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905 572-4400)