

## Section 1: Identification

**Product identifier:**

Identification as on the label/Trade name: LT SANITIZER 9%

Other means of identification: WW-LTSAN

**Relevant identification uses of the substance and uses advised against:****Recommended use:** Dishwashing sanitizer.**Restrictions on use:** Keep away from children.**Manufacturer/Supplier identifier:**BBSpro Services Inc  
204-11 Burbidge St  
Coquitlam  
B.C. V3K 7B2  
Canada +1-604-420-4305**Emergency telephone numbers:**

Emergency Contact:

BBSpro Services Inc: +1-877-420-4305 (24 hours)

CANUTEC (Transportation Emergency Only): +1-613-996-6666 (24 hours)

## Section 2: Hazard Identification

**Classification of the mixture:****The mixture is classified according to:** Globally Harmonized System of Classification and Labelling of Chemicals (GHS).**Hazard classes/Hazard categories:**

Skin Corrosive (Category 1B)

Eye Damage (Category 1)

Aquatic Acute (Category 1)

Aquatic Chronic (Category 2)

**Label elements:****Hazard pictograms:**



**Signal word:** Danger.

**Hazard statements:**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P260 Do not breathe dusts or mists.

P264 Wash hands and skin thoroughly after handling. Do not touch eyes.

P273 Avoid release to the environment.

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

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

P302 + P361 + P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

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

P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316 Get emergency medical help immediately.

P321 Specific treatment (see supplemental first aid instruction on this label)

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P405 Store locked up.

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

**Other hazards which do not result in classification:** None.

### Section 3: Composition/Information on Ingredients

**Substance/Mixture:** Mixture.

**Ingredients:**

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
sodium hypochlorite, solution	7681-52-9	9%	EUH031: C ≥ 5 %  M=10 M(Chronic)=1	Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
	231-668-3			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.



## Section 4: First-Aid Measures

### Description of first aid measures:

**General advice:** Under the shower. Take off immediately all contaminated clothing, including shoes.

**Inhalation of vapors/mists:** Move to fresh air. Oxygen or artificial respiration if needed. Keep under medical surveillance. In case of problems: Hospitalize.

**Skin contact:** Wash immediately, abundantly and thoroughly with water. Consult a physician. In case of extensive burns, hospitalize.

**Eye contact:** Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Consult an ophthalmologist immediately.

**Ingestion:** Do not induce vomiting, rinse mouth and lips with plenty of water if the subject is conscious, then hospitalize

**Protection of first-aiders:** In case of insufficient ventilation, wear suitable respiratory equipment.

### Most important symptoms and effects, both acute and delayed:

**Inhalation:** Most common respiratory symptoms included cough, upper respiratory irritation, and dyspnea.

**Skin / eye contact:** Ocular or dermal exposures to hypochlorite solutions can cause irritation and corrosive injuries.

**Ingestion:** Ingestion of dilute (3-5%) aqueous hypochlorite solutions will cause immediate burning in the mouth and throat. Ingestions of more concentrated solutions may cause significant esophageal and gastric burns, and patients may manifest dysphagia, drooling, and severe throat, chest, and abdominal pain. Hematemesis and gastrointestinal perforations can occur.

### Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

## Section 5: Fire-Fighting Measures

### Extinguisher media:

**Suitable extinguisher media:** Water spray.

**Unsuitable extinguishing media:** None known.

**Special hazards arising from the hazardous product:** Dry residue: Contact with combustible material may cause fire. Drying the solid using heat can lead to violent exothermic decomposition.

**Special protective equipment and precautions for fire-fighters:** Wear a self-contained breathing apparatus. Complete suit protecting against chemicals. In case of fire nearby, remove exposed containers. Cool containers / tanks with water spray.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

Prohibit contact with skin and eyes and inhalation of vapors. Use personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental precautions:** Do not release into the environment. Do not let product enter drains.



**Methods and materials for containment and cleaning up:**

Recovery: Pump into a clean labelled emergency container After cleaning, flush away traces with water. recover water for later processing.

Neutralization: Neutralize contaminated water with a sodium thiosulphate solution.

## Section 7: Handling and Storage

**Precautions for safe handling:**

Corrosive with suffocating vapors. Dangerous for the environment. Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. Provide self-contained breathing apparatus nearby.

**Hygiene measures:** Take off immediately all contaminated clothing. Prohibit contact with skin and eyes and inhalation of vapors. When using do not eat, drink or smoke. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including incompatible materials:**

Keep tightly closed in a dry, cool and well-ventilated place. Store away from moisture and heat to maintain the technical properties of the product. Protect against light. Use only clean equipment. Provide impermeable floor. Provide a catch-tank and anti-corrosion protected electrical equipment in a bunded area. Store between: 15-25 °C.

## Section 8: Exposure Controls / Personal Protection

**Control parameters:**

**Occupational exposure limits:**

sodium hypochlorite, CAS 7681-52-9

NIOSH REL

C 0.5 ppm (1.45 mg/m<sup>3</sup>) [15-minute]

OSHA PEL

C 1 ppm (3 mg/m<sup>3</sup>)

**Exposure controls:**

**Appropriate engineering controls:** Provide sufficient air exchange and/or exhaust in work rooms.

**Individual protection measures, such as personal protective equipment:**

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. In the case of hazardous fumes, wear self-contained breathing apparatus.

**Hand protection:** Splash contact, intermittent and prolonged PVC gloves Glove thickness: 1.2 mm.

**Eye protection:** Safety glasses with side-shields.

**Skin and body protection:** At the workplace: Waterproof suit, boots. Intervention at incident: Complete chemical protection suit, boots.



## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties:

**Appearance (form):** Liquid.

**Color:** Yellow.

**Odor:** Chlorine.

**Odor threshold:** No data available.

**pH:** 11.0

**Melting point/Freezing point:** 0 °C

**Initial boiling point/boiling range:** ~100 °C

**Flash point (°C):** No data available.

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

**Lower flammable/explosive limit:** No data available.

**Upper flammable/explosive limit:** No data available.

**Vapor pressure:** No data available.

**Vapor density:** No data available.

**Relative density:** ~ 1.18

**Solubility:** Soluble in all proportions in water. No data available (for other liquids).

**n-Octanol/Water partition coefficient:** No data available.

**Auto-ignition temperature:** No data available.

**Decomposition temperature:** No data available.

**Viscosity:** No data available.

## Section 10: Stability and Reactivity

**Reactivity:** No specific data is available for this product.

**Chemical stability:** Stability of the solution decreases under the action of heat, light, and in the presence of impurities (traces of iron, nickel, copper, cobalt, aluminum, manganese).

**Possibility of hazardous reactions:** None expected under normal conditions of storage and use.

**Conditions to avoid:** Keep at temperatures between: 15-25 °C. Product is sensitive to light.

**Incompatible materials:** Acids (violent decomposition with release of chlorine). Metals (decomposition with formation of oxygen).

**Hazardous decomposition products:** Thermal decomposition temperature: 111 °C. Thermal decomposition products include Chlorine, Hypochlorous acid, and Sodium chlorate.

## Section 11: Toxicological Information

### Information on toxicological effects:

#### **Acute toxicity:**

Acute toxicity, oral: LD50 1,100 mg/kg bw

Acute toxicity, inhalation: LC50 10,500 mg/m<sup>3</sup>

Acute toxicity, dermal: LD50 20,000 mg/kg bw

**Skin corrosion/irritation:** Causes severe skin burns and eye damage.



**Serious eye damage/irritation:** Causes serious eye damage.

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**STOT-single exposure:** No data available.

**STOT-repeated exposure:** No data available.

**Aspiration hazard:** No data available.

## Section 12: Ecological Information

**Toxicity:** Very toxic to aquatic life.

Component	Type	Species	Value	Exposure time
Sodium hypochlorite	EC50	Red alga	46 mg/L	96 hours
	LC50	Salmo gairdneri	0.07 mg/L	48 hours
	LC50	Daphnia magna	0.032 mg/L	48 hours

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

## Section 13: Disposal Considerations

**Method of disposal:** Dilute with water. Neutralize contaminated water with a sodium thiosulphate solution. Recover waste water for processing later.

**Contaminated packaging:** Clean container with water. Recover waste water for processing later.

## Section 14: Transport Information

**UN number:** 1791

**UN proper shipping name:** HYPOCHLORITE SOLUTION

**Hazard class:** 8

**Packing group:** II

**Environmental hazards:** Marine pollutant.

**Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable.

**Special precautions for user:** Refer to Sections 6 – 8.

## Section 15: Regulatory Information

### Safety, health and environmental regulations/legislation for the mixture:

**WHMIS Classification:** This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**Canadian DSL/NDSL Inventory Status:**

DSL: Yes



NDSL: No

Other Canadian Regulations: Not applicable.

Chemical Safety Assessment carried out: No.

## Section 16: Other Information

**Date of the latest revision of the SDS:** 28-Jan-2022

**Indication of changes:** GHS aligned.

**Relevant classification and H statements (number and full text):**

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

**NFPA rating:**



Health: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

Fire: 0 - Materials that will not burn. This includes any material that will not burn in air when exposed to a temperature of 1500 degrees F (815.5 degrees C) for a period of 5 min.

Reactivity: 1 - Materials that in themselves are normally stable, but that can become unstable at elevated temperatures and pressure.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**References:**

ECHA (European Chemicals Agency): Summary of CLP and Guidance on Safe Use Dossiers.

Canadian Centre for Occupational Health and Safety: WHMIS 1988 - Material Safety Data Sheets (MSDSs)

webwiser.nlm.nih.gov

GESTIS International Limit Values

Supplier SDSs