



Comet Chemical Company Ltd.
3463 Thomas Street Innisfil ,ON L9S 3W4
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Material Safety Data Sheet

"LIQUID CHLORINE" SODIUM HYPOCHLORITE – (JAVEX, CHLOROX, BASIC 12, CHLORINE BLEA)CH

Revision Date: 2008/06/30

Section 1 : PRODUCT AND COMPANY IDENTIFICATION

Chemical family: Mixture.

Product uses: Biocide.
Bleach.

Product name: "Liquid Chlorine" Sodium Hypochlorite
Solution (Javex, Chlorox, Basic 12, Chlorine
Bleach)

Supplier: Comet Chemical Ltd.
3463 Thomas Street
Innisfil, On.
L9S 3W4.

Supplier 24 hour phone number: (705)436-5580 – weekdays from 8:00-5:00.
(800)567-7455 all other times (Newalta Services).

Section 2 : INGREDIENT INFORMATION

C.A.S.	CONCENTRATION %	Ingédient	V.L.E.	DL/50	CL/50
7681-52-9	10-12	SODIUM HYPOCHLORITE	NOT AVAILABLE	5800 MG/KG MOUSE ORAL	NOT AVAILABLE

Section 2A: ADDITIONAL INGREDIENT INFORMATION

Note: (supplier).
Cas# 7681-52-9 TLV 0.5 ppm.

Section 3 : HAZARD IDENTIFICATION

Route of entry: Eye contact, skin contact, skin absorption, inhalation and ingestion.

Effects of acute exposure

Eye contact: May cause permanent damage.
Severe irritation.

Skin contact: May cause chemical burns.
Irritation.

Skin absorption: Not absorbed through the skin.

Inhalation: Irritant.
May cause pulmonary edema.

Ingestion: Corrosive.
May lead to coma.
Possible delirium followed by unconsciousness.
May cause low blood pressure.
May cause perforation of the digestive tract.

Effects of chronic exposure: See effects of acute exposure.

Sensitization to product: No

Carcinogenic effects: No effects reported.

Reproductive effects: Not available.

Teratogenicity: Not available.

Mutagenicity: Mutagenic effects have been observed on tests with laboratory animals.

Synergistic materials: None known.

Section 4 : FIRST AID MEASURES

Skin contact: Wash thoroughly with soap and water.
Remove contaminated clothing.
Consult a physician if irritation persists.

Eye contact: Flush eyes with clear, running water for 15 minutes while holding eyelids open. If irritation persists, consult a physician.

Inhalation: Remove victim to fresh air. If not breathing, qualified personnel should administer artificial respiration. Get medical attention.

Ingestion: Obtain immediate medical attention.
Give large quantities of water to drink.
Do not induce vomiting, keep person warm, quiet.
Guard against aspiration of liquids into lungs.
If vomiting occurs, keep head below hips.
Never give anything by mouth to an unconscious person.

Additional information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

Section 5 : FIRE FIGHTING MEASURES

Flammability: Not flammable.

Conditions of flammability: Will not burn.

Extinguishing media: Use appropriate extinguishing media for surrounding fire.

Special procedures: Firefighters should wear adequate protective gear.
Self-contained breathing apparatus required.

Auto-ignition temperature (°C): None

Flash point (°C), method: None

Lower flammability limit (% vol): None

Upper flammability limit (% vol): None

Explosion Data

Sensitivity to static discharge: Not sensitive.

Sensitivity to mechanical impact: Not sensitive.

Hazardous combustion products: Oxygen.
Chlorine gas.
Sodium chlorate.
Reactive chloroamines.

Rate of burning: Not available.

Explosive power: Not available.

Section 6 : ACCIDENTAL RELEASE MEASURES

Leak/Spill: Eliminate all sources of ignition.
Dike area to prevent spreading.
Ventilate area.
Wear appropriate protective equipment.
Pump to containers or soak up on inert absorbent.
Place in a closed container for disposal.
Do not flush to sewer.
Neutralize with dilute acetic acid.

Section 7 : HANDLING AND STORAGE

Handling procedures and equipment: Keep away from heat, sparks, and open flame.
Avoid breathing vapors/mists.
Use adequate ventilation.
Wear personal protective equipment appropriate to task.
Avoid contact with skin, eyes and clothing.
Do not cut, grind, weld or drill on or near containers.
Launder contaminated clothing prior to reuse.

Storage requirements: Store away from incompatible materials.
Store in a cool, dry and well ventilated area.

Section 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary Measures

Gloves/Type:



Natural rubber.
Neoprene or PVC recommended.
Nitrile gloves.


Respiratory/Type: If TLV is exceeded.
NIOSH/MSHA full-face respirator with acid gases and organic vapor cartridges when exposure levels are above TLV.

Eye/Type: 

Safety glasses with side-shields.



Chemical safety goggles.

Footwear/Type: 

Impervious boots.

Clothing/Type: Long sleeve shirt, long trousers.



Impervious apron.
When splashing is possible.

Other/Type: Eye wash facility should be in close proximity.
Emergency shower should be in close proximity.

Ventilation requirements: As needed to stay below TLV.

Exposure limit of material: Not available for mixture, see the ingredients section.

Section 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Appearance & odor: Clear
Pungent odour.
Chlorine odor.
Yellowish/Green.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): 22 @ 20°C

Vapour density (air=1): (chlorine gas).
2.5

Volatiles (%): Residue will be mainly sodium chloride (common salt).
~ 80%

Volatiles (%)

By volume: Not available.

**Evaporation rate
(butyl acetate = 1):** Not available.

Boiling point (°C): Water
(sodium hypochlorite decomposes at 40°C, leaving NaCl in solution).
105°C

Freezing point (°C): -15°C

pH: 12.8

Specific gravity @ 20 °C: ~ 1.16 (20/20°C)

Solubility in water (%): Complete.

Coefficient of water\oil dist.: Not available.

VOC: Not available.

Section 10 : STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions of instability: Exposure to light.
Decomposes readily above 40°C.

Hazardous polymerization: Will not occur.

Incompatible substances: Amines.
Ammonia (NH₃).
Urea
Isocyanurates.

Hazardous decomposition products: See hazardous combustion products.

Section 11 : TOXICOLOGICAL INFORMATION

LD50 of product, species & route: 5800 mg/kg mouse oral.

LC50 of product, species & route: Not available.

Section 12 : ECOLOGICAL INFORMATION

Environmental toxicity: No data at this time.

Environmental fate: No data at this time.

Section 13 : DISPOSAL CONSIDERATIONS

Waste disposal: In accordance with municipal, provincial and federal regulations.

Section 14 : TRANSPORT INFORMATION

TDG classification: CHLORITE SOLUTION
UN1908
Class 8
PG II.

Special shipping information: See transportation information.

Section 15 : REGULATORY INFORMATION

WHMIS classification:

C, E



DSL status: The substance(s) listed in section 2 appear on the Domestic Substances List.

Section 16 : OTHER INFORMATION

Supplier MSDS date: 2008/06/30

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