

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

OSTREM CHEMICAL CO. LTD.
2310 - 80 AVENUE
EDMONTON AB T6P 1N2

Phone: 780-440-1911 or 780-446-0177
In Case of Emergency Only:
phone CANUTEC at (613) 996-6666

Product name: LIQUID CHLORINE 12% SANITIZER

Code: J436

Other name:

Distributed by:

Product use: sanitizer, bleaching agent

Date completed: July 13, 2011

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
sodium hypochlorite (providing 12% available chlorine)	60-100	7681-52-9

3. HAZARDS IDENTIFICATION

Corrosive liquid. Causes burns. Harmful if swallowed. Oxidizing Material.
Do not mix with acid; poisonous chlorine gas will be liberated.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Induce vomiting only on the direct advice of a poison control centre. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

Eye contact: Flush with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Remove contaminated clothing and flush with plenty of water.

5. FIRE - FIGHTING MEASURES

Flash point (test method): Not applicable

Flammable limits (%): Not applicable

Lower:

Upper:

Fire extinguishing substances: water

Autoignition temperatures: not applicable

Hazardous combustion products: may produce chlorine gas and/or hydrogen chloride gas

Explosion data:

Sensitivity to mechanical impact: Not available

Sensitivity to static discharge: Not available

Special firefighting procedures: As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate protective equipment.

Environmental precautions: Prevent from entering sewers, waterways or low areas.

Methods for cleaning up: Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. HANDLING AND STORAGE

Handling: Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage: Keep out of reach of children. Keep container tightly closed. Store in a cool, dry, well-ventilated area and away from incompatible materials. Venting of containers is advisable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Provide exhaust ventilation to keep airborne levels below recommended exposure limits.
Respiratory protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator
Eye protection: Chemical goggles. Wear a face shield if splashing hazards exists.
Other protection: Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
sodium hypochlorite	1ppm (chlorine)		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Solubility in water: soluble
Boiling point: slowly decomposes above 40C	Vapour pressure: 12.1 mm Hg at 20C
Vapour density: Not available	Evaporation rate: Not available
Freezing point: -19C	Odour threshold: Not available
Sp. Gravity: 1.167	pH: 12.6 1% solution: 9.8
Appearance & odour:	pale yellow liquid with strong chlorine odour

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions of instability: unstable at temperatures above 40C, in sunlight, and in contact with acid
Incompatibility: () Water (X) Oxidizers (X) Acid () Base () Other
Conditions of reactivity: Not available
Hazardous decomposition products: chlorine (by reaction with acids)

11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: Irritating to respiratory system.
Ingestion: Harmful if swallowed. Causes burns to mouth, throat and stomach.
Eye contact: Corrosive to eyes. Causes severe burns.
Skin contact: Corrosive to skin. Causes severe burns.
Skin absorption: Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation: Repeat or prolonged exposure may cause damage to lungs.
Ingestion: Not available
Eye contact: Not available
Skin contact: Prolonged contact may cause discomfort.
Skin absorption: Not available

Irritancy of product: See WHMIS criteria
Sensitization of product: Not available
Carcinogenicity: IARC (1, 2A or 2B) No known significant effects.

ACGIH: (A1, A2 or A3)

Reproductive toxicity:

Teratogenicity:

Mutagenicity:

Synergistic product:

No known significant effects.

No known significant effects.

No known significant effects.

No known significant effects.

Not available

HAZARDOUS INGREDIENTS

sodium hypochlorite

CAS NO.

7681-52-9

TOXICITY DATA

LD₅₀ Oral (rat) 8910 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological information:

Not available

Other information:

13. DISPOSAL CONSIDERATIONS

Waste disposal: Disposal of all waste must be done according to local, provincial and federal regulations.

14. TRANSPORT INFORMATION

TDG classification:

HYPOCHLORITE SOLUTION; Class 8; UN 1791; PG III

15. REGULATORY INFORMATION

WHMIS:

E

Corrosive Material

C

Oxidizing Material

D2B

Toxic Material

NSF Certification:

This product is certified under NSF/ANSI Standard 60 for disinfection and oxidation at a maximum usage of 87 mg/L.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. PREPARATION INFORMATION

Prepared by:

Technical Services Department, Ostrem Chemical Co. Ltd., Ph: (780) 440-1911