

## 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 6% SANITIZER Code: J437  
**Other name:**  
**Distributed by:**  
**Product use:** bleach  
**Date completed:** July 13, 2011

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number	
Sodium Hypochlorite	40-60	7681-52-9	(providing 6% available chlorine)

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### 3. HAZARDS IDENTIFICATION

Corrosive liquid. Causes burns. Harmful if swallowed.

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### 4. FIRST AID MEASURES

**Inhalation:** Remove from exposure. Get fresh air.  
**Ingestion:** Do not induce vomiting. If irritation persists, seek 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.

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### 5. FIRE - FIGHTING MEASURES

**Flash point (test method):** Not applicable  
**Flammable limits (%):** Non-flammable  
**Lower:** Not applicable  
**Upper:** Not applicable  
**Fire extinguishing substances:** Use extinguishing media appropriate for surrounding fire.  
**Autoignition temperatures:** Not applicable  
**Hazardous combustion products:** Chlorine, oxygen, sodium chloride, hydrogen chloride.  
**Explosion data:**  
**Sensitivity to mechanical impact:** Not applicable  
**Sensitivity to static discharge:** Not applicable  
**Special firefighting procedures:** As for surrounding fire.

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### 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.

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### 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 area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** Special ventilation requirements not normally necessary  
**Respiratory protection:** Not normally necessary.  
**Eye protection:** Not normally necessary. Safety glasses may be worn.  
**Other protection:** Not normally necessary.

### Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
Sodium Hypochlorite	Not available		

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Solubility in water:</b>	Complete
<b>Boiling point:</b>	100C	<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available	<b>Evaporation rate:</b>	Not available
<b>Freezing point:</b>	0C	<b>Odour threshold:</b>	Not available
<b>Sp. Gravity:</b>	1.084	<b>pH:</b>	12.3; 1% solution: 9.5
<b>Appearance &amp; odour:</b>	pale yellow liquid with chlorine odour		

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## 10. STABILITY AND REACTIVITY

**Stability:** Decreases with heat, light exposure, decrease in pH and contamination with heavy metals.

**Conditions of instability:** Not available

**Incompatibility:** ( ) Water (X) Oxidizers (X) Acid ( ) Base (X) Other: ammonia, metal

**Conditions of reactivity:** Not available

**Hazardous decomposition products:** Not available

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## 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:** Causes burns.  
**Skin contact:** Causes burns.  
**Skin absorption:** Not available

### 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

<b>Irritancy of product:</b>	See WHMIS criteria
<b>Sensitization of product:</b>	Not available
<b>Carcinogenicity:</b> IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
<b>Reproductive toxicity:</b>	No known significant effects.
<b>Teratogenicity:</b>	No known significant effects.
<b>Mutagenicity:</b>	No known significant effects.
<b>Synergistic product:</b>	Not available

### HAZARDOUS INGREDIENTS

Sodium Hypochlorite

### CAS NO.

7681-52-9

### TOXICITY DATA

LD<sub>50</sub> Oral (rat) 12 mg/kg

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicological information:** Not available

**Other information:**

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**13. DISPOSAL CONSIDERATIONS**

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

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**14. TRANSPORT INFORMATION**

**TDG classification:** Hypochlorite solution; Class 8; UN 1791; PG III

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**15. REGULATORY INFORMATION**

**WHMIS:**

E	Corrosive Material
C	Oxidizing Material
D2B	Other Toxic Effects

**NSF Certification:** This product is certified under NSF/ANSI Standard 60 for disinfection and oxidation at a maximum usage of 175 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.

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**16. PREPARATION INFORMATION**

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