

# 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:** OSTRO SAN  
Drug Identification Number: 00373176  
**Other name:** Osto San  
**Distributed by:** Caltech Tech Services  
**Product use:** disinfectant  
**Date completed:** 13-Jul-2011

Code: J465

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
dimethylbenzyl ammonium chloride	10%	68424-85-1

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## 3. HAZARDS IDENTIFICATION

May cause temporary discomfort and redness to skin and eyes.

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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 15 minutes. Get medical attention if irritation persists.  
**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:** May liberate carbon monoxide, carbon dioxide and oxides of sodium.  
**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
dimethylbenzyl ammonium chloride	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> 0.994	<b>pH:</b> 6.6; 1% solution: 7.7
<b>Appearance &amp; odour:</b>	clear, colourless liquid with a slight almond smell

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions of instability:** Not available  
**Incompatibility:** ( ) Water (X) Oxidizers ( ) Acid ( ) Base ( ) Other  
**Conditions of reactivity:** Not available  
**Hazardous decomposition products:** Not available

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## 11. TOXICOLOGICAL PROPERTIES

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** No known significant effects  
**Ingestion:** May be harmful if swallowed.  
**Eye contact:** May cause temporary discomfort and redness.  
**Skin contact:** May cause temporary discomfort  
**Skin absorption:** Not available

### POTENTIAL CHRONIC HEALTH EFFECTS:

**Inhalation:** No known significant effects  
**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	CAS NO.	TOXICITY DATA
dimethylbenzyl ammonium chloride	68424-85-1	LD50 Oral (rat) = 4000 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:** Not regulated

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### 15. REGULATORY INFORMATION

**WHMIS:** Not controlled (DIN: 00373176)

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