

## 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:** SILVASAN CONCENTRATE

Code: J468

**Other name:**

**Distributed by:**

**Product use:** disinfectant cleaner

**Date completed:** April 01, 2014

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
Hydrogen Peroxide	5-7	7722-84-1
Citric Acid	5-10	77-92-9
Acetic Acid	3-7	64-19-7
Peroxyacetic Acid	0.5-1.5	79-21-0
Surfactant Blend	1-5	Not Available
Silver	0.04	7440-22-4

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### 3. HAZARDS IDENTIFICATION

Corrosive liquid. May cause 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 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 oxides, carbon dioxide and oxygen.

**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:** 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
Hydrogen Peroxide	TLV 1 ppm		
Citric Acid	not available		
Acetic Acid	10 ppm		

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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> 1.068	<b>pH:</b> 1.34 (1:15 solution = 2.16)
<b>Appearance &amp; odour:</b> clear, colourless and odourless	

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions of instability:** Not available  
**Incompatibility:** ( ) Water (X) Oxidizers (X) 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:** Irritating to respiratory system.  
**Ingestion:** Swallowing small amounts of this material is not likely to cause harmful effects. Large amounts may cause stomach and intestinal irritation, abdominal pain and vomiting.  
**Eye contact:** May cause mild to severe irritation such as stinging, tearing, redness and swelling of the eyes.  
**Skin contact:** May cause skin irritation.  
**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:** Not available  
**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) No known significant effects.

**Reproductive toxicity:** No known significant effects.

**Teratogenicity:** No known significant effects.

**Mutagenicity:** No known significant effects.

**Synergistic product:** Not available

HAZARDOUS INGREDIENTS	CAS NO.	TOXICITY DATA
Hydrogen Peroxide	7722-84-1	LD50 Oral (rat) 1232 mg/kg LD50 Dermal (rabbit) >2000 mg/kg
Citric Acid	77-92-9	LD50 Oral (mouse) 5040 mg/kg
Acetic Acid	64-19-7	LD50 Oral (rat) 3530 mg/kg
Peroxyacetic Acid	79-21-0	LD50 Oral (rat) 1824 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:** E Corrosive

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.

**HMIS:**

Legend HMIS

Severe	4	Health	2
Serious	3	Flammability	0
Moderate	2	Physical Hazard	0
Slight	1	Personal Protection	B
Minimal	0		

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## 16. PREPARATION INFORMATION

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