

## 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 CHAIN LUBRICANT (SOAP BASE)

Code: T634

**Other name:**

**Distributed by:**

**Product use:** lubricant

**Date completed:** April 01, 2014

---

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
isopropanol (99%)	10-20	67-63-0
tetrasodium salt of ethylene diamine	10-30	64-02-8
tetraacetic acid (EDTA)		

---

### 3. HAZARDS IDENTIFICATION

Combustible liquid. Eye irritant. Harmful if swallowed.

---

### 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.

---

### 5. FIRE - FIGHTING MEASURES

**Flash point (test method):** 38C

**Flammable limits (%):** Not available

**Lower:** Not available

**Upper:** Not available

**Fire extinguishing substances:** use extinguishing media appropriate for surrounding fire

**Autoignition temperatures:** Not available

**Hazardous combustion products:** May liberate carbon monoxide and carbon dioxide.

**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:** Eliminate all ignition sources and wear 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

LIQUID CHAIN LUBRICANT (SOAP BASE)

**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.

## 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
isopropanol (99%)	TWA=400 ppm		
tetrasodium salt of ethylene diamine	Not available		
tetraacetic acid (EDTA)			

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Solubility in water:</b> 100%
<b>Boiling point:</b> Not available	<b>Vapour pressure:</b> Not available
<b>Vapour density:</b> Not available	<b>Evaporation rate:</b> Not available
<b>Freezing point:</b> Not available	<b>Odour threshold:</b> Not available
<b>Sp. Gravity:</b> 1.057	<b>pH:</b> 9-11
<b>Appearance &amp; odour:</b> pale liquid	

---

## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions of instability:** Not available  
**Incompatibility:** Not available  
**Conditions of reactivity:** Not available  
**Hazardous decomposition products:** Not available

---

## 11. TOXICOLOGICAL PROPERTIES

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** No known significant effects.  
**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 applicable

### POTENTIAL CHRONIC HEALTH EFFECTS:

**Inhalation:** No known significant effects.  
**Ingestion:** Not available  
**Eye contact:** Not available  
**Skin contact:** Not applicable  
**Skin absorption:** Not applicable

**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
isopropanol (99%)	67-63-0	LD <sub>50</sub> Oral (rat) 5045 mg/kg LD <sub>50</sub> Dermal (rabbit) 5030 mg/kg
tetrasodium salt of ethylene diamine tetraacetic acid (EDTA)	64-02-8	LD50 Oral (rat) >2000 mg/kg LD50 Dermal (rabbit) 1350 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:** In quantities over 450 L: FLAMMABLE LIQUID (ISOPROPYL ALCOHOL); Class 3, UN 1993; PG III  
Not regulated in quantities under 450 L.

---

## 15. REGULATORY INFORMATION

**WHMIS:** B3 Combustible Liquid  
D2B Toxic Material Causing Other Effects

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