

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: CUTTING OIL

Code: I313

Other name:

Distributed by:

Product use: lubricant

Date completed: April 01, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | %W/W | CAS number |
|--|-------|---------------|
| white mineral oil | 15-40 | 8042-47-5 |
| fatty acids, potassium salts | 1-5 | not available |
| hydrotreated petroleum distillate, heavy naphthenic | 1-5 | 64742-52-5 |
| sulfonic acids, petroleum, sodium salts | 1-5 | 68608-26-4 |

3. HAZARDS IDENTIFICATION

Eye irritant. Harmful if swallowed.

4. FIRST AID MEASURES

Inhalation: Remove from exposure. Get fresh air.

Ingestion: Induce vomiting only on the direct advice of a poison control centre. 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 (%): 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 nitrogen and sulphur.

Explosion data:

Sensitivity to mechanical impact: Not applicable

Sensitivity to static discharge: Not applicable

Special firefighting procedures: As for surrounding fire.

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 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 |
|---|---------------|--------------------------------|-------|
| white mineral oil | TLV STEL | 10mg/m ³ 15 minutes | |
| fatty acids, potassium salts | Not available | | |
| severely hydrotreated petroleum distillates, heavy naphthenic | TLV STEL | 10mg/m ³ 15 minutes | |
| sulfonic acids, petroleum, sodium salts | Not available | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--------------------------------------|--------------------------------------|---------------|
| Physical state: Liquid | Solubility in water: | emulsifies |
| Boiling point: Not available | Vapour pressure: | Not available |
| Vapour density: Not available | Evaporation rate: | Not available |
| Freezing point: Not available | Odour threshold: | Not available |
| Sp. Gravity: 0.965 | pH: | 9.1 |
| Appearance & odour: | milky white liquid with slight odour | |

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: excessive heat causes formation of oil mist.

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: No known significant effects.
Ingestion: Not available
Eye contact: Repeated or prolonged contact with spray or mist may produce chronic eye irritation.
Skin contact: Repeated skin exposure may produce local skin destruction or dermatitis.
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 |
|--|---------------|---|
| white mineral oil | 8042-47-5 | LD50 oral rat = >5000 mg/kg LD50 dermal rabbit = >2000 mg/kg |
| fatty acids, potassium salts | not available | not available |
| severely hydrotreated petroleum distillates, heavy naphthenic | 64742-52-5 | LD50 oral rat = >5000 mg/kg LD50 dermal = >2000 mg/kg |
| sulfonic acids, petroleum, sodium salts | 68608-26-4 | not available |

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: Not regulated

15. REGULATORY INFORMATION

WHMIS: D2B Other toxic 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