

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: ORANGE GROVE CLEANER-DEGREASER Code: J485
Other name:
Distributed by:
Product use: cleaner-degreaser
Date completed: April 01, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
d-limonene	1-5	5989-27-5

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 available
Flammable limits (%): Not available
Lower: Not available
Upper: Not available
Fire extinguishing substances: carbon dioxide, foam or dry chemical
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: 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: Special ventilation requirements not normally necessary.
Respiratory protection: Not normally necessary.
Eye protection: Wear safety glasses.
Other protection: Not normally necessary.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
d-limonene	Not available		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid	Solubility in water:	soluble
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:	1.014	pH:	9.5; 1% solution: 7.5 - 8.5
Appearance & odour:	yellow-green fluorescent liquid with orange fragrance		

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions of instability: keep away from heat, sparks and flame
Incompatibility: () Water (X) Oxidizers (X) Acid () Base () Other
Conditions of reactivity: Not available
Hazardous decomposition products: Not available

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 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

d-limonene

CAS NO.

5989-27-5

TOXICITY DATALD₅₀ Oral (rat) 4400 mg/kgLD₅₀ Dermal (rabbit) 5000 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:** Not regulated

15. REGULATORY INFORMATION**WHMIS:** 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