

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: CITRUS TAR REMOVER

Code: A275

Other name:

Distributed by:

Product use: Tar Remover

Date completed: April 01, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | %W/W | CAS number |
|------------|-------|------------|
| d-limonene | 40-70 | 5989-27-5 |

3. HAZARDS IDENTIFICATION

Combustible liquid. Eye irritant. Harmful if swallowed. Slippery on floors.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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): 48°C (TCC)

Flammable limits (%): Not available

Lower: Not available

Upper: Not available

Fire extinguishing substances: carbon dioxide, foam or dry chemical

Autoignition temperatures: 458°F/237°C

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. Slippery on floors.

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

CITRUS TAR REMOVER

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. An N95 NIOSH respirator may be worn.
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 |
|------------|---------------|------|-------|
| d-limonene | Not available | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------------|---|
| Physical state: Liquid | Solubility in water: sparingly 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: 0.916 | pH: 5.0 |
| Appearance & odour: | clear pale yellow liquid with citrus odour |

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: May be harmful if swallowed.
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: Not available | |
| Ingestion: Not available | |
| Eye contact: Not available | |
| Skin contact: Prolonged exposure may cause drying 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

d-limonene

5989-27-5

LD₅₀ Oral (rat) 4400 mg/kg

LD₅₀ 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: In amounts over 450 L: FLAMMABLE LIQUID, N.O.S.
(D-LIMONENE); Class 3; UN 1993; PG III
Not regulated in amounts less than 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