

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: CITRO POWER

Code: I305

Other name:

Distributed by:

Product use:

Date completed: July 28, 2010

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
d-limonene	7-13	5989-27-5
triethanolamine 85%	1-5	102-71-6

3. HAZARDS IDENTIFICATION

Combustible liquid. Eye irritant. Harmful if swallowed.

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): 110F/43C (closed cup)

Flammable limits (%): Not available

Lower: Not available

Upper: Not available

Fire extinguishing substances: carbon dioxide, foam or dry chemical

Autoignition temperatures: 458F/237C

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: 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
d-limonene	Not available		
triethanolamine	5mg/m ³ TLV-TWA		

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:	0.99	pH:	9-10
Appearance & odour:	orange 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: 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)
ACGIH: (A1, A2 or A3)
Reproductive toxicity:
Teratogenicity:
Mutagenicity:
Synergistic product:

No known significant effects.
No known significant effects.
No known significant effects.
No known significant effects.
No known significant effects.
Not available

HAZARDOUS INGREDIENTS	CAS NO.	TOXICITY DATA
d-limonene	5989-27-5	LD ₅₀ Oral (rat) 4400 mg/kg LD ₅₀ Dermal (rabbit) 5000 mg/kg
triethanolamine	102-71-6	LD ₅₀ Oral (rat) 4190 mg/kg LD ₅₀ Dermal (rabbit) 2000 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