MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

OSTREM CHEMICAL CO. LTD. Phone: 780-440-1911 or 780-446-0177

2310 - 80 AVENUE In Case of Emergency Only:

EDMONTON AB T6P 1N2 phone CANUTEC at (613) 996-6666

Product name: CITRUS PLUS Code: G506

Other name: Distributed by:

Product use: Detergent

Date completed: April 01, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
Ethylene glycol monobutyl ether	1-5	111-76-2
Sodium Metasilicate	1-5	6834-92-0
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):

Flammable limits (%):

Lower:

Upper:

Not applicable

Not applicable

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 sodium.

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: Special ventilation requirements not normally necessary

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

Ethylene glycol monobutyl ether 20 ppm TWA Not available

Sodium Metasilicate Not available limonene Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solubility in water: Liquid Complete Vapour pressure: **Boiling point:** 100C Not available Vapour density: **Evaporation rate:** Not available Not available Freezing point: Not available Odour threshold: Not available

Sp. Gravity: 1.057 **pH:** 13.4; 1% solution: 11.3

Appearance & odour: amber liquid with orange odour

10. STABILITY AND REACTIVITY

Stability: Stable Conditions of instability: Not available

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

eves.

Skin contact: May cause skin irritation.

Skin absorption: Not available

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation: Repeat or prolonged exposure may cause damage to lungs.

Ingestion:Not availableEye contact:Not availableSkin contact:Not availableSkin absorption:Not available

Prolonged overexposure to high concentrations of ethylene glycol monobutyl ether by absorption, ingestion and inhalation has caused blood, liver and kidney effects in laboratory

animals.

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:

Teratogenicity:

No known significant effects.

No known significant effects.

No known significant effects.

No known significant effects.

Synergistic product: Not available

HAZARDOUS INGREDIENTS CAS NO. TOXICITY DATA

Ethylene glycol monobutyl ether 111-76-2 LD₅₀ Oral (rat) 1480 mg/kg

LD₅₀ Dermal(rabbit) 630 mg/kg

Sodium Metasilicate 6834-92-0 LD50 Oral (rat) 847 mg/kg limonene 5989-27-5 LD50 Oral (rat) 4400 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 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