

## 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:** GREEN PINE FLOOR CLEANER  
**Other name:** PINE FLOOR CLEANER  
**Distributed by:** HOTEL EQUIPMENT & SUPPLY CO. LTD  
**Product use:** floor cleaner  
**Date completed:** March 27, 2009

Code: J417

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient          | %W/W  | CAS number |
|---------------------|-------|------------|
| Sodium Carbonate    | 15-40 | 497-19-8   |
| Sodium Metasilicate | 10-30 | 6834-92-0  |

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### 3. HAZARDS IDENTIFICATION

Eye irritant. Dust inhalation may irritate nose, throat and lungs.

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### 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.  
**Skin contact:** Remove contaminated clothing and flush with plenty of water.

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### 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 sodium.  
**Explosion data:**  
**Sensitivity to mechanical impact:** Not applicable  
**Sensitivity to static discharge:** Not applicable  
**Special firefighting procedures:** As for surrounding fire.

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### 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.

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### 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** No special ventilation requirements.  
**Respiratory protection:** Not normally necessary. An N95 NIOSH respirator may be worn.  
**Eye protection:** Not normally necessary. Safety glasses may be worn.  
**Other protection:** Not normally necessary.

### Exposure limits:

| INGREDIENT          | ACGIH         | OSHA | Other |
|---------------------|---------------|------|-------|
| Sodium carbonate    | Not available |      |       |
| Sodium Metasilicate | Not available |      |       |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |   |
|---------------------------------------|---|
| <b>Physical state:</b> Solid          | <b>Solubility in water:</b> 10%         |
| <b>Boiling point:</b> Not applicable  | <b>Vapour pressure:</b> Not applicable  |
| <b>Vapour density:</b> Not applicable | <b>Evaporation rate:</b> Not applicable |
| <b>Freezing point:</b> Not applicable | <b>Odour threshold:</b> Not available   |
| <b>Sp. Gravity:</b> Not applicable    | <b>pH:</b> 1% sol. 11.3                 |
| <b>Appearance &amp; odour:</b>        | Green granular powder with pine odour   |

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditions of instability:** Not available  
**Incompatibility:** ( ) Water (X) Oxidizers (X) Acid ( ) Base ( ) Other  
**Conditions of reactivity:** Reacts with acids, aluminum, fluorine, lithium, strong mineral acids  
**Hazardous decomposition products:** Not available

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## 11. TOXICOLOGICAL PROPERTIES

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** Breathing in the dust from this material may cause irritation and coughing.  
**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:** Corrosive to eyes. Causes severe burns.  
**Skin contact:** Corrosive to skin. Causes severe burns.  
**Skin absorption:** Not applicable

### POTENTIAL CHRONIC HEALTH EFFECTS:

**Inhalation:** Repeat or prolonged exposure may cause damage to lungs.  
**Ingestion:** Not available  
**Eye contact:** Not available  
**Skin contact:** Prolonged contact may cause discomfort.  
**Skin absorption:** Not applicable

|  |                               |
|--|-------------------------------|
| <b>Irritancy of product:</b>               | See WHMIS criteria            |
| <b>Sensitization of product:</b>           | Not available                 |
| <b>Carcinogenicity:</b> IARC (1, 2A or 2B) | No known significant effects. |
| ACGIH: (A1, A2 or A3)                      | No known significant effects. |
| <b>Reproductive toxicity:</b>              | No known significant effects. |
| <b>Teratogenicity:</b>                     | No known significant effects. |
| <b>Mutagenicity:</b>                       | No known significant effects. |
| <b>Synergistic product:</b>                | Not available                 |

**HAZARDOUS INGREDIENTS**

Sodium carbonate

**CAS NO.**

497-19-8

**TOXICITY DATA**

LD50 Oral (rat) 4090 mg/kg

LC50 Inhalation (rat) 2300 mg/m3

Sodium Metasilicate

6834-92-0

LD50 Oral (rat) 847 mg/kg

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**12. ECOLOGICAL INFORMATION****Ecotoxicological information:** Not available**Other information:**

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**13. DISPOSAL CONSIDERATIONS****Waste disposal:** Disposal of all waste must be done according to local, provincial and federal regulations.

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**14. TRANSPORT INFORMATION****TDG classification:** not regulated

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**15. REGULATORY INFORMATION****WHMIS:** E Corrosive Material

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.

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**16. PREPARATION INFORMATION****Prepared by:** Technical Services Department, Ostrem Chemical Co. Ltd., Ph: (780) 440-1911