

## 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:** LIQUID ENZYME PRE-SOAK AND DETERGENT Code: L510  
**Other name:**  
**Distributed by:**  
**Product use:** enzyme laundry detergent  
**Date completed:** April 8, 2014

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
sodium tetraborate	2%	1303-96-4

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### 3. HAZARDS IDENTIFICATION

Harmful if swallowed. May cause temporary discomfort and redness to skin and eyes.

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### 4. FIRST AID MEASURES

**Inhalation:** No harmful effects expected with normal use. Avoid inhalation of mist.  
**Ingestion:** Induce vomiting only on the direct advice of a poison control centre. Get medical attention.  
**Eye contact:** Flush with plenty of water for 15 minutes. Get medical attention if irritation persists.  
**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 oxides of carbon, sulphur, nitrogen and boron.

**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:** Special ventilation requirements not normally necessary  
**Respiratory protection:** Not normally necessary.  
**Eye protection:** Not normally necessary. Safety glasses may be worn.  
**Other protection:** Not normally necessary.

### Exposure limits:

INGREDIENT ACGIH  
sodium tetraborate 6 mg/m<sup>3</sup> (STEL); 2 mg/m<sup>3</sup> (TWA)

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Solubility in water:</b>	Complete
<b>Boiling point:</b>	100°C	<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available	<b>Evaporation rate:</b>	Not available
<b>Freezing point:</b>	0°C	<b>Odour threshold:</b>	Not available
<b>Sp. Gravity:</b>	1.057	<b>pH:</b>	7.5 - 8.5
<b>Appearance &amp; odour:</b>	green-blue, semi-viscous liquid with a pleasant scent		

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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:** Not available  
**Hazardous decomposition products:** Not available

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## 11. TOXICOLOGICAL PROPERTIES

### POTENTIAL ACUTE HEALTH EFFECTS

**Inhalation:** No known significant effects  
**Ingestion:** No known significant effects  
**Eye contact:** May cause temporary discomfort and redness  
**Skin contact:** May cause temporary discomfort  
**Skin absorption:** Not available

### POTENTIAL CHRONIC HEALTH EFFECTS:

**Inhalation:** No known significant effects  
**Ingestion:** Not available  
**Eye contact:** Not available  
**Skin contact:** Prolonged contact may cause discomfort  
**Skin absorption:** Not available

<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>	Sodium tetraborate may damage fertility or the unborn child.
<b>Teratogenicity:</b>	Sodium tetraborate is a known teratogen.
<b>Mutagenicity:</b>	No known significant effects.
<b>Synergistic product:</b>	Not available

### HAZARDOUS INGREDIENTS

sodium tetraborate

### CAS NO.

1303-96-4

### TOXICITY DATA

LD<sub>50</sub> (Oral, Rat) = 4500 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:** 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.

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**16. PREPARATION INFORMATION**

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