

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **OPTIMA**
Product use: Concentrated laundry detergent
WHMIS Class: D2B
TDG Classification: Not regulated
UN Number: Not applicable
T.D.G. Shipping Name: Not applicable

Manufactured by:
Chemotec (PM) Inc.
8820 Place Ray Lawson
Anjou, Quebec, Canada H1J 1Z2
Telephone: (514) 729-6321; 1-800-729-6321

Emergency Phone: as above or call **CANUTEC** (613) 996-6666 in case of **chemical emergency only**.

SECTION 2: HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% p/p</u>	<u>TLV</u>	<u>CL₅₀</u>	<u>DL₅₀</u>
Sodium laureth sulfate	9004-82-4	1 - 5	n/a	n/a	> 4950 mg/kg (oral, rat)
Dodecylbenzene sulfonic ethanolate	26836-07-7	1-5	n/a	n/a	n/a
Alkylphenol ethoxylate	9016-45-9	10 - 30	n/a	n/a	2590 mg/kg (oral, rat)

SECTION 3: PHYSICAL DATA

Boiling Point (°C): 100
Vapor Pressure (mm Hg): 20(water)
Vapor Density (Air = 1): 0.6(water)
Solubility in Water: Complete
Physical State: Liquid
Appearance and Odor: Blue transparent liquid with pleasant odour.

Specific Gravity (H₂O = 1): 1.03 at 20 °C
% Volatile (Wt %): 75-80
Evaporation Rate (nBuAc = 1): 0.4(water)
pH (as supplied): 8.5 - 9.5
Viscosity: 300 cps at 25 °C
Odor Threshold (ppm): n/a

SECTION 4: FIRE AND EXPLOSION DATA

Flammability: Not flammable, not combustible.

Flash Point (TCC, °C): > 93.3 LEL: Not applicable UEL: Not applicable

Hazardous Combustion Products: Smoke, carbon oxides, nitrogen oxides and other toxic and flammable products.

Autoignition Temperature (°C): Not available.

Means of Extinction: Water, foam, dry chemicals, carbon dioxide.

Special Fire Hazards: A stream of water directed into the product will generates a lot of foam.

SECTION 5: REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Incompatible Materials: Strong oxidizing materials.

Reactivity and Under What Conditions: Not available

Hazardous Decomposition Products: Unknown.

SECTION 6: TOXICOLOGICAL PROPERTIES

Route of Entry: Eyes, skin, ingestion, inhalation.

EFFECTS OF ACUTE EXPOSURE:

Eye: Irritant, may cause redness, tears, burning sensation.

Skin: Slight irritation and dry skin condition may appear on very sensitive skin.

Ingestion: Headache, nausea, vomiting, abdominal pain, diarrhea may occur.

Inhalation: No effect.

EFFECTS OF CHRONIC EXPOSURE:

Irritancy: Prolonged or repeated contacts with skin may cause some irritation: skin dryness, redness, dermatitis on sensitive skin.

Skin Sensitization: Not sensitizing.

Carcinogenicity: No components are known to be carcinogenic.

Teratogenicity: No components are known to be teratogenic.

Mutagenicity: No components are known to be mutagenic.

Synergistic Materials: None known.

SECTION 7: PREVENTATIVE MEASURES

Gloves: Plastic or rubber gloves to manipulate large quantities of pure product.

Eye Protection: Safety glasses with side shields to manipulate large quantities.

Respiratory Protection: Not required.

Other Protective Equipment: Waterproof boots if large spill.

Engineering Controls: None usually required.

Leak and Spill Procedure: Wear personal protective equipment. Stop the leak. Pump the product into drums for disposal, or clean up spills using absorbent material and place in waste container for destruction. Resume cleaning by rinsing with water.

Waste Disposal: Dispose according to existing federal, provincial and municipal regulations.

Storage Requirements: Keep in original tightly closed containers.. Keep from freezing.

SECTION 8: FIRST AID

Eye: Immediately rinse with plenty of water for several minutes, keeping eyelids open. Seek medical attention should an irritation develop.

Skin: Rinse with water. Remove soiled clothes and wash before wearing.

Inhalation: Not applicable.

Ingestion: Give plenty of water. Do not induce vomiting unless directed by a doctor. Seek medical attention.

SECTION 9: PREPARATION INFORMATION

Date: 2009-01-14

Phone: (514) 729-6321

Prepared by:

Chemotec (PM) Inc.

Abbreviation :

n/a : not available

Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).