



# H.E. Max

High Efficiency Laundry Detergent

## DESCRIPTION

**H.E. Max Laundry Detergent** is a concentrated, low foaming and phosphate-free liquid detergent with a fresh scent that provides excellent cleaning with the right level of sudsing for high-efficiency washers. **H.E. Max Laundry Detergent** creates few suds and disperses quickly to get great cleaning performance with only a fraction of the amount of water used in traditional machines. This environmentally sound formulation contains a variety of enzymes targeted at oils, proteins and starches and is very effective at all water temperatures and types of laundry fabrics: cotton, wool, synthetics and blends.

**H.E. Max Laundry Detergent** assures whiter whites and brighter colours with special wetting agents to break the chemical bond between oily stains and polyester fibres for even cleaner results. These features make **H.E. Max Laundry Detergent** the detergent of choice for better results in your high-efficiency washer.

## DIRECTIONS

**H.E. Max Laundry Detergent** is safe for use in high efficiency washing machines and designed to be dispensed directly from the shipping container by your liquid laundry dispenser.

### **Agitator Machines (Top Loading):**

Light soil - use 30-60 mL (1-2 oz) per load.

Heavy soil - use 60-120 mL (2-4 oz) per load.

### **Tumbler Machines (Front Loading):**

Light soil - use 60-120 mL (2-4 oz) per 45 kg of linen.

Heavy soil - use 120-240 mL (4-8 oz) per 45 kg of linen.

### **Prespotting:**

To remove difficult stains, use full strength prior to washing.

### **Presoaking:**

Use 90 ml per 45 L (0.25 oz/gallon)(1:256) of water. Let fabric soak overnight.

## PHYSICAL DATA

Appearance	Clear liquid
Colour	Pale Yellow
Foam	Low to none
Odor	Fresh scent
pH	8.0 – 9.0



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **HE MAX LAUNDRY DETERGENT** WHMIS CODE: D2B  
 Product Use: *High Efficiency Laundry Detergent.* Proper Shipping Name: N/A  
 Hazard Class: N/A  
 UN Number: N/A

HMIS	
1	Health
0	Flammability
0	Reactivity
A	Personal

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**EMERGENCY PHONE**  
 Canada: Canutec 613-996-6666  
 U.S.A.: Chemtrec 800-424-9300

A=Goggles, B=Goggles & Gloves  
 C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

## SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
<b>SODIUM ALKYL BENZENE SULPHONATE</b>	25155-30-0	1.0-5.0	NONE	NONE
LD50	1260 mg/kg (oral, rat)			
LD50	N/D (Dermal)			
LC50	N/D			
<b>ALCOHOL ETHOXYLATE MIXTURE</b>	Proprietary	10.0-15.0	N/A	N/A
LD50 (oral rat)	>2000 mg/kg			
<b>ALCOHOL ETHOXYLATE</b>	68991-48-0	5.0-10.0	N/A	N/A
LD50 (oral rat)	>2000 mg/kg			

## SECTION 3 – PHYSICAL DATA

**Color and Odor:** Pale yellow, fresh scent. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 7.5 – 8.5  
**Physical State:** Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.04 @ 20°C  
**Coef. Water/Oil Dist:** Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

**Flash Point and Method:** None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.  
**Flammable Limits:** None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.  
**Unusual Fire and Explosion Hazards:** None. **Conditions of Flammability:** None.  
**Hazardous Combustion Products:** Oxides of carbon and sulfur, and other possible unidentifiable organic compounds.  
**Special Fire Fighting:** Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

## SECTION 5 – REACTIVITY DATA

**Chemical Stability:** Stable under normal storage conditions.  
**Hazardous Polymerization:** Will not occur.  
**Incompatibility (material to avoid):** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Carbon and sulfur Oxides liberated upon thermal decomposition.

## SECTION 6 – TOXICOLOGICAL DATA

**Exposure Limits:** See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eye contact.  
**Irritancy of Product:** May be irritating to eyes. **Carcinogenicity:** None known.  
**Sensitization:** None known. **Mutagenicity:** None known.  
**Name of Toxicological Synergistic Product:** None known. **Reproductive Toxicity:** None known.  
**Effects of Chronic Exposure:** None known. **Teratogenicity:** None known.  
**Effects of Acute Exposure to Product:** Product exposure may irritate eyes. Prolonged or repeated exposure to skin may cause dryness. Inhalation of vapors or mists is unlikely because of product use. Ingestion may cause gastrointestinal and abdominal discomfort.

## SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

**Respiratory Protection:** Not required for normal use of product.  
**Ventilation:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.  
**Protective Gloves:** Normally not required. However, wearing of rubber gloves are recommended to minimize skin dryness from prolonged or repeated skin contact.  
**Eye Protection:** Normally not required. However, wearing of safety goggles are recommended if there is a risk of product splashing into eyes during usage.  
**Protective Clothing and Equipment:** Eyes wash recommended in the immediate work area.  
**Storage and Handling Procedures:** Use good industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.  
**Disposal Procedures for Spills or Leaks:** Wear protective equipment. Dike and contain large spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and natural waters.  
**Waste Disposal Method:** Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.  
**Special Shipping Information:** Store at temperature below 30°C. Keep from freezing.

## SECTION 8 – EMERGENCY FIRST AID PROCEDURES

**First Aid:**  
 If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

## PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division

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THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE