



Hy-Built

Laundry Detergent

DESCRIPTION

HY-BUILT is a specially designed, complete detergent for the plant desiring a broad spectrum product suitable for all classifications. It is formulated to handle all the heavy soils associated with industrial linen supply operations. **HY-BUILT** emulsifies and suspends heavy grease and oil deposits. It forms a stable emulsion at low or high temperatures and rinses quickly to save time and energy.

HY-BUILT is a metasilicate-built product containing high proportions of active non-ionic surfactant, soil suspending agents, sequestrants, and brighteners for a superb wash. You will achieve a brighter, cleaner load with less fuss and lower cost. It may be used on light, medium and heavy soils in industrial uniforms, cottons or polyester/cotton blends, and meat packers' shroud.

DIRECTIONS

Use 1/3 kg **HY-BUILT** (12 oz.) in 50 lb. washer. Water temperature at 58°C (136°F) for whites. Wash for 15 to 18 minutes. Rinse 3 times for 2 minutes, gradually reducing temperature to 27°C (80°F)

Dark coloured garments can be washed at 27°C (80°F) across the board.

Laundered items for use in registered food establishments should be subject to a thorough final potable water rinse.

PHYSICAL DATA

Appearance	Powder
Colour	White
Foam	Low
Odor	Characteristic
pH (3.1%)	12.0

MATERIAL SAFETY DATA SHEET

**MANUFACTURER: MAXIM CHEMICAL INTERNATIONAL LTD.
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SECTION (1): PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: HY-BUILT

PRODUCT USE: LAUNDRY DETERGENT

WHMIS CLASSIFICATION: E
**TDG CLASSIFICATION: Corrosive Solid N.O.S. (Sodium Metasilicate Pentahydrate),
Class 8 UN 1759, Packing Group III**

SECTION (2): HAZARDOUS INGREDIENTS

		<u>CAS #</u>	<u>Range % (by weight)</u>
Sodium Metasilicate		6834-92-0	40.0-70.0
Exposure Limits:	ACGIH TLV 2mg/m ³		
LD50 (oral, rat):	847 mg/kg		
LD50 (dermal):	Not available		
LC50:	Not available		
Sodium Carbonate		497-19-8	1.0-5.0
Exposure Limits:	ACGIH TLV 10 mg/m ³		
LD50 (oral, rat):	2800 mg/kg		
LD50 (dermal):	Not available		
LC50:	Not available		

SECTION (3): PHYSICAL DATA (Typical values. May vary from sample to sample)

Physical State:	Solid
Appearance and Odor:	White powder, odorless
Boiling Point:	Not applicable
Specific Gravity:	Not available
Solubility in Water:	>10 g/100ml (20°C)
pH :	10.0-12.0 (5% solution)
Odor Threshold:	No data
Vapour Pressure:	Not applicable
Vapour Density:	Not applicable
Evaporation Rate:	Not applicable
Freezing Point:	Not applicable
Coefficient of Water/Oil Distribution:	Greater than 1.0

SECTION (4): FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed cup):	Not applicable
Extinguisher Media:	Water fog, foam, CO ₂ , cry chemical. Use extinguishing media suitable for surrounding fires.
Special Fire Fighting Procedures:	Wear full protective equipment, including a self contained breathing apparatus in fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.
Unusual Fire and Explosion Hazard:	None
Flammable Limits:	Not known
Auto-ignition Temperature:	Not known
Conditions of Flammability:	None
Explosion Data:	
Sensitivity to Mechanical Impact:	None
Sensitivity to Static Discharge:	None

SECTION (5): REACTIVITY DATA

Stability:	Stable under normal storage conditions.
Incompatibility (Materials to avoid):	Strong acids, oxidizers
Hazardous Decomposition Product:	Carbon oxides, phosphorus oxides. Flammable hydrogen may be liberated on prolonged contact of water solution with sensitive metals (aluminum, zinc etc.)
Hazardous Polymerization:	Will not occur

SECTION (6): TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY INFORMATION:	Skin and eye contact, inhalation.
Irritancy:	Corrosive to skin, eyes, and respiratory tract.
Effects of Accute Exposure to Product:	Product exposure may cause eye and skin burns and irritation. Inhaling product dust may cause irritation of respiratory tract.
Effect of Chronic Exposure to Product:	Prolonged and repeated exposure to product will cause skin damage and dermatitis, inflammation of the lungs.
Exposure Limits:	See Section 2 under hazardous ingredients.
Sensitization to Product:	No data
Carcinogenicity:	None known
Reproductive Toxicity:	None known
Teratogenicity:	None known
Mutagenicity:	None known
Name of Toxicologically Synergistic Product:	None known

SECTION (7): PREVENTATIVE MEASURES

Respiratory Protection:

Use NIOSH/MSHA approved dust respirator if product dust is generated.

Ventilation:

Good general ventilation or local exhaust ventilation for dust generated in confined areas.

Protective Gloves:

Rubber or plastic.

Eye Protection:

Goggles or face shield.

Disposal Procedures for Spills or Leaks:

Wear protective equipment including respirator. Sweep up material and scoop into an approved clean dry waste container. Keep material away form sewers and natural waters.

Waste Disposal Method:

Reuse if possible, or otherwise dispose recovered material in accordance with all local, provincial or federal regulations.

Storage and Handling Procedures:

Use good industrial hygiene. Avoid contact with eyes and skin. Do not get on clothing. Do not breathe dust. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals.

SECTION (8): FIRST AID PROCEDURES

EYES: Flush with plenty of water for at least 15 minutes. Get medical attention.
SKIN: Wash well with plenty of water for 15 minutes. If skin irritation develops contact a physician.
INHALATION: Remove to fresh air.
INGESTION: Give plenty of water to drink. Do not induce vomiting. Call a physician.

SECTION (9): PREPARATION INFORMATION

Prepared by Technical Advisory services. Phone: (306) 347-0444

Date: February 20, 2006
Revised: July 4, 2011

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MSDS-ID 1200478