

MATERIAL SAFETY DATA SHEET

Trade Name: Non-Phosphate Laundry Detergent #8788

Prepared: August 28, 2000

Revised: March 2004

Section I - Source Information

Manufacturer's Name: Michigan State Industries, Inc.
Address: Ryan Correctional Facility
Emergency Phone: (313) 368-3200 x51412
(800) 222-1222 Poison Control
Technical Information: (313) 368-3200 x51412
Chemical Name: Detergent

Section II - Hazardous Ingredients/Identify Information

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>OSHA PEL*</u>	<u>ACGIH TLV*</u>
Sodium Carbonate	497-19-8	None	
Sodium Metasilicate	6834-92-0	None	
Sodium Sulfate	7757-82-6	None	

*Exposure limits expressed as eight-hour time-weighted average concentrations in parts of contaminant per million parts of air by volume (ppm). "Other Limits" are recommended by the National Institute for Occupational Safety and Health (NIOSH) and are time-weighted over ten hours unless otherwise specified.

Section III - Physical/Chemical Characteristics

<u>Boiling Point:</u>	N/A	<u>Specific Gravity:</u>	0.83
<u>Vapor Pressure:</u>	N/A	<u>Vapor Density:</u>	N/A
<u>Evaporation Rate: (Ethyl Ether = 1):</u>	N/A		
<u>Solubility in Water:</u>	100%		
<u>Appearance and Color:</u>	White powder with slight odor		

Section IV - Fire and Explosion Hazard Data:

Flash Point: N/A Flammable Limits: LEL: N/A UEL: N/A
Extinguishing Media: Water, dry chemical, carbon dioxide, foam
Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards:

NFPA 704

Health -	1	HAZARDS 4 - Extreme 3 - Severe 2 - Moderate 1 - Slight 0 - None
Fire -	0	
Reactivity-	1	

Section V - Reactivity Data:

Stability: STABLE

Incompatibility (Conditions to avoid): Can react violently with aluminum, phosphoric acid, sulfuric acid, fluoride, lithium, 2,4,6-trinitro-toluene.

Hazardous Polymerization: None known

Hazardous Decomposition Products: When heated to decomposition emits toxic fumes of SO_x, PO_x and Na₂O.

Section VI - Health Hazard Data:

Routes of Entry: Contact, ingestion

Health Hazards: *Acute:* Eye, skin and mucous membrane irritation

Chronic: None Known

Target Organs: Eyes, skin

Carcinogenicity: *NTP:* No *IARC:* No *OSHA:* No

Signs and Symptoms of Exposure: Eye and mucous membrane irritation. Ingestion causes gastrointestinal upset.

Medical Conditions Generally Aggravated by Exposure:

Emergency and First Aid Procedures:

Eye: If this product contacts the eyes, promptly wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention if any discomfort continues.

Swallow: If this product has been swallowed, get medical attention immediately.

Skin: If this product contacts the skin, promptly wash the contaminated skin with soap and water. If this product penetrates the clothing, promptly remove the clothing and wash the skin with soap and water.

Breathing: If a person breathes large amounts of this product, move the exposed person to fresh air at once. Other measures are usually unnecessary.

Section VII - Precautions for Safe Handling and Use

Steps to be taken in Case of Material Release or Spill: Collect spilled material, dispose of unusable product properly. Flush residue quantities to sanitary sewer with large amounts of water.

Waste Disposal Method: This product is not listed in the federal hazardous waste regulations 40CFR 261.33, paragraphs (e) or (f), i.e. chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40CFR 261, Subpart C. State or local hazardous waste regulations may apply if different from federal.

Precautions to be taken in Handling and Storing: Keep dry

Other Precautions:

Section VIII - Control Measures:

Respiratory Protection: None required under normal conditions.

Ventilation: None required under normal conditions.

Protective Gloves: Chemically resistant.

Eye Protection: Wear appropriate glasses, goggles or face shield to prevent eye contact.

Other Protective Clothing or Equipment: Wear appropriate personal protective clothing to prevent skin contact.

Work/Hygienic Practices: Wash hands after use.

Section IX-Additional Information:

DOT Shipping Name: N/A

Hazard Class: N/A

This product contains the following compounds which are subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR 372:

<u>Constituent</u>	<u>CAS #</u>	<u>Concentration</u>
None		

This notification of reporting requirements cannot be removed from this MSDS and the copying and redistribution of this document must include this notice.

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originated with Michigan State Industries, Inc. or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.