

# MATERIAL SAFETY DATA SHEET

Trade Name: Power Capsule, #8791

Date Prepared: August 1999

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>	<u>Percentage</u>
Sodium Hydroxide	1310-73-2	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	<22%
Sodium Metasilicate	6834-92-0			<9%

No exposure limits have been established for this specific product however, the following limits may apply

Sodium Dichloro-S-Triazinetrione 2893-78-9 10mg/m<sup>3</sup> <3%

Although OSHA and ACGIH have not established specific exposure limits for this material, they have established for the following nuisance dusts.

OSHA PEL/TWA: TOTAL 15mg/m<sup>3</sup>; RESPIRABLE 5mg/m<sup>3</sup>

ACGIH TLV/TWA TOTAL 10mg/m<sup>3</sup>; RESPIRABLE 5mg/m<sup>3</sup>

\*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

Boiling Point: N/A Specific Gravity: NO DATA  
Vapor Pressure: N/A Vapor Density: N/A  
Evaporation Rate: (Ethyl Ether = 1): N/A Solubility in Water: Complete  
Appearance and Color: White powder, chlorine odor

## Section IV - Fire and Explosion Hazard Data:

Flash Point: N/A Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: This material is not combustible. Foam, carbon dioxide or dry chemical may be used in areas where this product is stored.

Special Fire Fighting Procedures: Firefighters should wear full protective clothing when any material is involved in a fire.

Unusual Fire and Explosion Hazards: Contact with some metals: particularly magnesium, aluminum, and zinc (galvanized) can rapidly generate hydrogen which is explosive.

NFPA 704

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

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**Section V - Reactivity Data:**

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Stability: Stable

Conditions to avoid: Leather, wool, acids, organic halogen compounds, organic nitro compounds, magnesium, aluminum, zinc (galvanized), tin, chromium, brass and bronze.

Incompatibility: (Materials to avoid) see above.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None Known

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**Section VI - Health Hazard Data:**

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Routes of Entry: skin and eye contact, inhalation, ingestion

Health Hazards (acute and chronic): Acute - corrosive to all body tissues by all routes of exposure. The effect of local dermal exposure may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis, similarly, inhalation of dust, spray or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness. Chronic - none known.

Carcinogenicity: NTP: No                      LARC: No                      OSHA: No

Emergency and First Aid Procedures:

Eyes: Object is to flush material out immediately then get medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention.

Skin: Immediately wash contaminated areas with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear which cannot be decontaminated. Get medical attention immediately.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water, if available, give several glasses of milk. If vomiting occurs spontaneously, keep airway clear. Get medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, have a trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. Get medical attention immediately.

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**Section VII - Precautions for Safe Handling and Use**

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Steps to be taken in Case of Material Release or Spill: Only a trained person equipped with protective gloves, shoes and clothing should be permitted in area. Keep the material dry and shovel or sweep up material. After all visible material has been removed, flush area with large amounts of water.

Waste Disposal Method: Dispose of material in accordance with all local, state and federal regulations.

Precautions to be taken in Handling and Storing: Do not get in eyes, on skin or clothing. Avoid breathing dust, mists or spray. Do not take internally. Use with adequate ventilation and wear respiratory protection when exposure to dust, mist or spray is possible. When handling, wear chemical splash goggles, face shield, rubber gloves and protective clothing. Wash thoroughly after handling or contact. Exposure can cause burns which are not immediately painful or visible. Keep container closed. Product is corrosive to tin, aluminum, zinc and alloys containing these metals and will react violently with these metals in powder form.

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**Section VIII - Control Measures:**

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Respiratory Protection: Not required under normal use.

Ventilation: Sufficient to maintain dust levels below permissible exposure limits.

Protective Gloves: Rubber or PVC

Eye Protection: OSHA approved goggles with full face shield.

Other Protective Clothing or Equipment: Rubber apron, PVC clothing, and eye bath recommended.

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**Section IX-Additional Information:**

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DOT Shipping Name: Sodium Hydroxide Mixture, 8, UN1823, PGII

Hazard Class: Corrosive powder

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.