

Michigan State Industries

SAFETY DATA SHEET

MSI-8794 – Non-Phosphate Power Capsule

Date: 5/9/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Power Capsule

Other Means of Identification

Product Code 8791

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Machine Dishwashing for use with injector fed systems

Details of the Supplier of the Safety Data Sheet

Manufactured for Address Michigan State Industries
1780 E. Parnall Rd.
Jackson, MI. 49201

Emergency Telephone Number

Company Phone Number 517-780-6726
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion/Irritation	Category 1 Sub-category B
Serious Eye Damage/Eye Irritation	Category 1

Signal Word DANGER

Hazard Statements Causes severe skin burns and eye damage.
May cause respiratory irritation
Harmful if swallowed



Appearance: White powder

Physical State: Solid

Odor: Chlorine Odor

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray. Do not ingest.
 Wash face, hands, and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements – Response

Immediately call a POISON Center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.
IF ON SKIN: Remove contaminated clothing immediately. Flush with water for at least 15 minutes. Seek medical attention if irritation occurs. Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention if irritation occurs.
IF SWALLOWED: Rinse mouth. Immediately call local poison control center or physician for treatment advice.

Precautionary Statements - Storage

Store locked up, in an area inaccessible to children. Store in a cool, dry area.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Carbonate	497-19-8	45 - 55
Trisodium Citrate Dehydrate	6132-04-3	10 - 25
Sodium Metasilicate	6834-92-0	10 – 20
Sodium dichloroisocyanurate dihydrate	51580-86-0	0 - 5

4. FIRST AID MEASURES

First Aid Measures

- Inhalation** Remove person to fresh air. If breathing is difficult, have a trained person administer oxygen. If respiration stops, administer mouth-to-mouth resuscitation, get medical attention immediately.
- Eye Contact** Immediately flush with large amounts of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention.
- Ingestion** Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Give large quantities of water, if available give several glasses of milk. If vomiting occurs spontaneously, keep airway clear. Seek medical attention immediately.
- Skin Contact** Immediately flush 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.

Most Important Symptoms and Effects, both Acute and Delayed

- Symptoms** 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.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Flood with water.

Unsuitable Extinguishing Media ABC fire extinguishers, carbon dioxide, dry chemicals.

Hazardous Combustion Products:

Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.

Protective Equipment and Precautions for Firefighters

When any material is involved in a fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Wear appropriate protective clothing.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage, if safe to do so. Do not add water to spilled material.

Methods for Cleaning Up SMALL SPILLS: do not add water to spilled material. Isolate spill; sweep up and collect for disposal. Damp material should be neutralized to a non-oxidizing state. LARGE SPILLS: Isolate spill; keep material dry and collect for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Do not breathe dust/fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Never add water to this product. Always add product to large quantities of water. Do not add this product to any dispensing device containing residuals of other products.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions KEEP OUT OF REACH OF CHILDREN. Keep containers tightly closed in a cool, well-ventilated place. Store locked up.

Incompatible Materials Acids, ammonia, bases. Contact with some metals; particularly magnesium, aluminum and zinc (galvanized) can rapidly generate hydrogen which is explosive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Appropriate Engineering Controls

Engineering Controls Good general ventilation should be sufficient for most conditions.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Safety glasses Wear face shield if splashing can occur.
Skin and Body Protection	Wear protective gloves and protective clothing. Rubber or PVC.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on Basic Physical and Chemical Properties**

Physical State	Solid	Odor	Chlorine odor
Appearance	White Powder	Odor Threshold	N/A
Color	White		
Property	Values	Remarks • Method	
pH in 1% solution	13		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	Not determined		
Flash Point	Not determined		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Specific Gravity	Not applicable		
Water Solubility	Completely soluble		

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Will react with incompatible materials. Contact with some metals; particularly magnesium, aluminum and zinc (galvanized) can rapidly generate hydrogen which is explosive.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Incompatible materials.

Incompatible Materials

Acids.

Hazardous Decomposition Products

Chlorine, nitrogen, nitrogen trichloride, cyanogen chloride, oxides of carbon, phosgene.

11. TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure**

Inhalation May cause irritation to the mucous membranes and upper respiratory tract.

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns. May be harmful in contact with skin.

Ingestion May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Carbonate 497-19-8	2800 mg/kg (Rat)	>2000 mg/k (Rabbit)	2.30 mg/l (Rat)
Sodium Metasilicate 6834-92-0	1152 – 1349 mg/kg (Rat)	>5000 mg/kg (Rat)-	>2.06 g/m ³ (Rat)

Information on Physical, Chemical and Toxicological Effects

Symptoms 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.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity No components of this product have been classified as a carcinogen by NTP, IARC or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and Degradability
This product is biodegradable.

Bioaccumulation
Not determined.

Mobility
Not determined.

Other Adverse Effects
Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not Regulated
IATA	Not Regulated
IMDG	Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

CERCLA Reportable Quantity No components of this product are listed

SARA 313 No chemical (s) components of this product are subject to reporting levels established by SARA Title III, Section 313.

US State Regulations

U.S. State Right-to-Know Regulations None known

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Reactivity	Special Hazards
	2	0	1	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Reactivity	Personal Protection
	2	0	1	B

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet