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Version 1.1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Encapsulated Metal Safe Dishmachine Detergent

### Other Means of Identification

**Product Code** 322900

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Chlorinated encapsulated machine dish detergent. For industrial use.

### Details of the Supplier of the Safety Data Sheet

Midlab, Inc.  
140 Private Brand Way  
Athens, TN 37303

### Emergency Telephone Number

**Company Phone Number** Phone: 1-423-337-3180  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** White

**Physical State** Powder

**Odor** Characteristic

### Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Aquatic Toxicity Acute	Category 2

### Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed.

### Signal Word

**Danger**



### Hazard Statements

Causes severe skin burns and eye damage.  
Toxic to aquatic life.

### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid release to the environment.

### 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.  
IF ON SKIN (or hair): Remove/Take off immediately contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
SPECIFIC TREATMENT: Remove from exposure and treat symptoms.

**Precautionary Statements – Storage**

Store locked up.

**Precautionary Statements – Disposal**

Dispose of contents/container in accordance with local, regional, or national regulations.

**Unknown Acute Toxicity**

None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS	Weight-%
Sodium Metasilicate	6834-92-0	15-40
Sodium Tripolyphosphate	7758-29-4	10-30
Sodium Carbonate	497-19-8	10-30
Sodium Hydroxide	1310-73-2	7-13
Sodium Dichloroisocyanurate	51580-86-0	1-5
Polyacrylate Salt	68479-09-4	1-5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST-AID MEASURES****First Aid Measures****Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

**Skin Contact**

Wash with plenty of soap and water. If skin burns or irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse.

**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

**Ingestion**

Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. If any discomfort persists, obtain medical attention.

**Most Important Symptoms and Effects****Symptoms**

Causes serious eye burns/damage. Causes skin burns/irritation. May be harmful if swallowed.

**Indication of Any Immediate Medical Attention and Special Treatment Needed****Notes to Physician**

Treat symptomatically. May aggravate pre-existing skin disorders.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Water. Foam.

**Unsuitable Extinguishing Media**

Not determined.

**Specific Hazards Arising from the Chemical**

None known.

**Hazardous Combustion Products**

Normal products of combustion.

**Protective Equipment and Precautions for Firefighters**

As in any 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 protective clothing as described in Section 8 of this safety data sheet.

**Environmental Precautions**            Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal Considerations, for additional information. See Section 12 for additional Ecological Information.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment**              Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Methods for Clean-Up**                    Contain and collect with an inert absorbent and place into an appropriate container for disposal. Rinse area with clean water and dry before permitting traffic.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Advice on Safe Handling**                Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. For industrial and commercial use only. Avoid contact with skin, eyes or clothing. Wash face, hands, and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

**Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions**                      Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from freezing. Keep out of the reach of children.

**Incompatible Materials**                 Avoid contact with acids, oxidizers, ammonia, and organic solvents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Metasilicate 6834-92-0	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-
Sodium Tripolyphosphate 7758-29-4	15 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	-
Sodium Carbonate 497-19-8	-	15mg/m <sup>3</sup>	-
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Sodium Dichloroisocyanurate* 51580-86-0 *Releases Chlorine (Chlorine Exposure)	1.0 ppm C C= Ceiling	TLV: 0.5 ppm STEL: 1 ppm	-

**Appropriate Engineering Controls**

**Engineering Controls**                    Ensure adequate ventilation, especially in confined areas. Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. Eyewash stations. Showers.

**Individual Protection Measures, such as Personal Protective Equipment**

<b>Eye/Face Protection</b>	Use chemical splash goggles or glasses as necessary to prevent contact.
<b>Skin and Body Protection</b>	Not usually necessary under conditions of normal use. Normal work clothing (long sleeved shirts and long pants) is recommended.
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

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

<b>Physical State</b>	Powder	<b>Odor</b>	Characteristic
<b>Appearance</b>	White	<b>Odor Threshold</b>	Not determined
<b>Color</b>	White		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH (1%)</b>	12.5-13.0	as a 1% w/w solution	
<b>Melting Point/Freezing Point</b>	Not applicable		
<b>Boiling Point/Boiling Range</b>	Not applicable		
<b>Flash Point</b>	Not applicable		
<b>Evaporation Rate</b>	Not applicable		
<b>Flammability (Solid, Gas)</b>	Not determined		
<b>Upper Flammability Limits</b>	Not applicable		
<b>Lower Flammability Limit</b>	Not applicable		
<b>Vapor Pressure</b>	Not applicable		
<b>Vapor Density</b>	Not applicable		
<b>Specific Gravity</b>	1.12		
<b>Water Solubility</b>	Moderately soluble	@ 25 °C (77 °F)	
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		

**10. STABILITY AND REACTIVITY****Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to Avoid**

Keep out of reach of children. Avoid getting water inside container.

**Incompatible Materials**

Avoid contact with acids, oxidizers, ammonia, and organic solvents.

**Hazardous Decomposition Products**

Releases hazardous chlorine compounds at elevated temperatures or when mixed with incompatible substances.

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

<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Causes skin burns.
<b>Inhalation</b>	May be harmful if inhaled.
<b>Ingestion</b>	May be harmful if swallowed.

**Component Information**

Chemical Name	Oral	Dermal LD50	Inhalation LC50
Sodium Metasilicate 6834-92-0	= 600 mg/kg ( Rat )	-	-
Sodium Tripolyphosphate 7758-29-4	= 3100 mg/kg ( Rat )	> 7940 mg/kg ( Rabbit )	-
Sodium Carbonate 497-19-8	= 4090 mg/kg ( Rat )	-	-
Sodium Hydroxide 1310-73-2	-	= 1350 mg/kg ( Rabbit )	-
Sodium Dichloroisocyanurate 51580-86-0	= 1823 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	0.27-1.17 mg/L (4hr) (Rat)
Polyacrylate Salt 68479-09-4	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

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

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical Measures of Toxicity**

Not determined

**Unknown Acute Toxicity**

None known.

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Metasilicate 6834-92-0	-	210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	-	216: 96 h Daphnia magna mg/L EC50
Sodium Tripolyphosphate 7758-29-4	-	1650: 48 h Leuciscus idus mg/L LC50	-	-
Sodium Carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static	-	265: 48 h Daphnia magna mg/L EC50

Sodium Hydroxide 1310-73-2	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-
Sodium Dichloroisocyanurate 51580-86-0	-	0.25-1.0 mg/L (96hr) Bluegill sunfish	-	0.196 mg/L (48hr) Daphnia magna
Polyacrylate Salt 68479-09-4	> 180 mg/L (96hr) Algae	> 1000 mg/OL (96hr) Bluegill sunfish	-	> 1000 mg/L (48hr) Daphnia magna

**Persistence/Degradability**

Not determined

**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.

**California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Sodium Hydroxide 1310-73-2	Toxic Corrosive
Sodium Carbonate 497-19-8	Corrosive

### 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN 1759, Corrosive Solid, NOS(Containing Sodium Hydroxide), 8, PG II

**IATA****IMDG**

### 15. REGULATORY INFORMATION

**International Inventories**Canada – Domestic Substances List (DSL)  
TSCA (Toxic Substances Control Act)All ingredients are listed or exempt.  
All ingredients are listed or exempt.**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**

This material, as supplied, contains the following substance(s) regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Reactive Hazard</b>	Yes

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb			X

**US State Regulations****U.S. State Right-to-Know Regulations**

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

Chemical Name	State List
Sodium Tripolyphosphate 7758-29-4	MA & PA
Sodium Hydroxide 1310-73-2	MA, NJ, PA
Sodium Dichloroisocyanurate 51580-86-0	MA, PA, RI

AZ- Arizona Ambient Air Quality Guidelines  
 CT- Connecticut Hazardous Air Pollutants  
 CA- California Director's List of Hazardous Substances  
 CAP65- California Prop65  
 FL- Florida Substances List  
 ID- Idaho Non-Carcinogen Toxic Air Pollutants

IL- Illinois Toxic Air Contaminant- Carcinogenic  
 MA- Massachusetts Right to Know List  
 MN- Minnesota Hazardous Substances List  
 NJ- New Jersey Right to Know List  
 PA- Pennsylvania Right to Know List  
 RI- Rhode Island Hazardous Substances List

<b>16. OTHER INFORMATION</b>
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**NFPA****Health Hazards****Flammability****Instability****Special Hazards****HMIS**

Not determined

Not determined

Not determined

Not determined

**Health Hazards****Flammability****Physical Hazards****Personal Protection**

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Not determined

**Issue Date:**

08-Aug-2011

**Revision/Review Date:**

09-Dec-2019

**Revision Note:**

Version 1.1 Updated Section 3

**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.

**Keep Out of Reach of Children. For Industrial and Institutional Use Only.**

\*Denotes changes from last version.

**End of Safety Data Sheet**