1. IDENTIFICATION

**Product Identifier**

**Product Name**
Best Dish Encaps

**Other Means of Identification**

**Product Code**
322700

**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

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Powder</td>
<td>Characteristic</td>
</tr>
</tbody>
</table>

**Classification**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Aquatic Toxicity Acute</td>
<td>Category 2</td>
</tr>
<tr>
<td>Corrosive to metals</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

**Hazard Statements**

Causes severe skin burns and eye damage.
Toxic to aquatic life.
May be corrosive to metals.

**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.
Keep only in original container.

**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.
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.

IN CASE OF SPILL: Clean up spillage to prevent material damage.

Precautionary Statements – Storage
Store locked up.
Store in corrosive resistant container with a resistant inner layer.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>15-40</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>7758-29-4</td>
<td>10-30</td>
</tr>
<tr>
<td>Sodium Metasilicate</td>
<td>6834-92-0</td>
<td>10-30</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>10-30</td>
</tr>
<tr>
<td>Sodium Dichloroisocyanurate</td>
<td>51580-86-0</td>
<td>1-5</td>
</tr>
<tr>
<td>Polyacrylate Salt</td>
<td>68479-09-4</td>
<td>1-5</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is "proprietary" and/or Weight-% 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

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**

<table>
<thead>
<tr>
<th>Personal Precautions</th>
<th>Environmental Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wear protective clothing as described in Section 8 of this safety data sheet.</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Methods for Containment</th>
<th>Methods for Clean-Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Storage Conditions</th>
<th>Incompatible Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from freezing. Keep out of the reach of children.</td>
<td>None known based on information supplied</td>
</tr>
</tbody>
</table>

### 8. EXPOSURE CONTROLS/PERSOANL PROTECTION

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³</td>
<td>IDLH: 10 mg/m³ Ceiling: 2 mg/m³</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate 7758-29-4</td>
<td>15 mg/m³</td>
<td>15 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>Sodium Metasilicate 6834-92-0</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
<td>-</td>
</tr>
</tbody>
</table>
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

Eye/Face Protection

Use chemical splash goggles or glasses as necessary to prevent contact.

Skin and Body Protection

Not usually necessary under conditions of normal use. Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Powder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH (1%)</td>
<td>12.0-12.5</td>
<td></td>
<td>as a 1% w/w solution</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Moderately soluble</td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ 25 °C (77 °F)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Eye Contact Causes serious eye damage.

Skin Contact Causes skin burns.

Inhalation May be harmful if inhaled.

Ingestion May be harmful if swallowed.

Component Information

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

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 Hydroxide 1310-73-2 | - | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static | - | - |
Sodium Tripolyphosphate 7758-29-4 | - | 1650: 48 h Leuciscus idus mg/L LC50 | - | - |
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 Carbonate 497-19-8 | 242: 120 h Nitzschia mg/L EC50 | 300: 96 h Leopomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static | - | 265: 48 h Daphnia magna mg/L EC50 |
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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>Toxic Corrosive</td>
</tr>
<tr>
<td>Sodium Carbonate 497-19-8</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

### 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) All ingredients are listed or exempt.
TSCA (Toxic Substances Control Act) 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).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1000 lb</td>
<td>RQ 1000 lb final RQ</td>
<td>RQ 454 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute Health Hazard  Yes
- Chronic Health Hazard Yes
- Reactive Hazard      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)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>State List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide 1310-73-2</td>
<td>MA, NJ, PA</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate 7758-29-4</td>
<td>MA &amp; PA</td>
</tr>
<tr>
<td>Sodium Dichloroisocyanurate 51580-86-0</td>
<td>MA, PA, RI</td>
</tr>
</tbody>
</table>

AZ- Arizona Ambient Air Quality Guidelines  IL- Illinois Toxic Air Contaminates- Carcinogenic
CT- Connecticut Hazardous Air Pollutants  MA- Massachusetts Right to Know List
CA- California Director's List of Hazardous Substances  MN- Minnesota Hazardous Substances List
CAP65- California Prop65  NJ- New Jersey Right to Know List
FL- Florida Substances List  PA- Pennsylvania Right to Know List
ID- Idaho Non-Carcinogen Toxic Air Pollutants  RI- Rhode Island Hazardous Substances List

16. OTHER INFORMATION
NFPA  Health Hazards  Flammability  Instability  Special Hazards
Not determined  Not determined  Not determined  Not determined

HMIS  Health Hazards  Flammability  Physical Hazards  Personal Protection
3  0  0  Not determined

Issue Date: 08-Aug-2011
Revision/Review Date: 06-Aug-2018
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