**MATERIAL SAFETY DATA SHEET**

Texas Correctional Industry
A division of the Texas Department of Criminal Justice

NFPA HAZARD RATING

<table>
<thead>
<tr>
<th>Fire Hazard</th>
<th>Health Hazard</th>
<th>Reactivity</th>
<th>Specific Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Date Issued: February 2008
Supersedes: January 2004

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **De-Germ**
General Use: Industrial auto machine dishwashing
Manufacturer Name: Texas Correctional Industry
Soap & Detergent Plant
One Circle Drive
Sugar Land, Texas 77478

Emergency Telephone Numbers
Galveston Texas Poison Control: 1-800-764-7661
Soap & Detergent Plant Lab: 281-490-1111
MSDS available at: www.tci.tdcj.state.tx.us
Monday thru Thursday: 7 a.m. - 3 p.m.

**SECTION 2 - HAZARDOUS INGREDIENT**

<table>
<thead>
<tr>
<th>Chemical/Common Name</th>
<th>CAS No.</th>
<th>PERCENT</th>
<th>TLV</th>
<th>PEL</th>
<th>WHMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metasilicate</td>
<td>6834-92-0</td>
<td>~33</td>
<td>N/D</td>
<td>3 mg/m³</td>
<td>1%</td>
</tr>
<tr>
<td>Sodium Sesquicarbonate</td>
<td>533-96-0</td>
<td>13 - 14</td>
<td>15 ppm</td>
<td>N/D</td>
<td>N/D</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>7758-29-4</td>
<td>~33</td>
<td>5 mg/m³</td>
<td>N/D</td>
<td>N/D</td>
</tr>
</tbody>
</table>

N/A = Not Applicable   N/D = Not Determined

Threshold Limit Values (TLV): TWA (time-weighted average for 8 hr. day); PEL (personal exposure limit)
WHMIS – minimum amount necessary in a mixture to trigger reporting: 1% (hazardous chemical); 0.1% (extremely hazardous chemical)

**SECTION 3 - PHYSICAL PROPERTIES**

- Vapor Pressure: N/D
- Specific Gravity (water = 1): N/D
- Solubility in Water: Complete
- pH (1% aqueous solution): 11.8 – 12.2
- Boiling Point: N/A
- Appearance and Odor: White to off white granular powder

**SECTION 4 - FIRE AND HAZARD DATA**

- Flash Point (T.C.C.): Nonflammable
- Flammable Limit: N/D
- Physical Hazard: Higher pH determines a slightly corrosive mixture note; CAUTION: corrosive powder
- Extinguishing Media: Water and foam
- Fire Extinguishing Procedure: Use of respiratory equipment is recommended in enclosed areas.
- Fire and Explosive Hazard: N/D
SECTION 5 - REACTIVE DATA

Hazardous Decomposition: Oxides of carbon and nitrogen
Stability: Stable
Incompatibility: Inorganic acids

SECTION 6 - HEALTH HAZARD

Primary Route of Exposure: Eyes, Skin, Oral, or Inhalation

Signs and Symptoms of Over Exposure (acute):
- Eyes: May cause eye irritation or injury; Corrosive dust
- Skin: Contact may cause irritation; avoid exposure
- Ingestion: May cause gastrointestinal irritation; Do not ingest this product
- Inhalation: Dust protection should not be necessary; Do not inhale this product

Signs and Symptoms of Over Exposure (chronic): None known
Medical condition aggravated by over exposure: Not known
Carcinogen or suspect of carcinogen ingredients: Has no ingredient listed as a carcinogen by IARC, NTP, or OSHA

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURE

Eyes: Do not get in your eyes. Flush with plenty of water for 15 minutes, until irritation subsides; seek medical attention
Skin: Immediately brush off any excess and flush skin with large quantities of water; seek medical attention if irritation develops
Ingestion: Rinse mouth thoroughly. Drink plenty of water; do not induce vomiting; Contact a physician immediately.
Inhalation: Do not breathe dust. Move exposed individual to fresh air.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use an appropriate respirator approved for dust if product dust exceeds exposure limits.
Ventilation Requirement: Yes
Protective Gloves: Nitrile
Eye Protection: Chemical goggles

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be taken if released or spilled: Gather all materials practical for salvage or disposal. Rinse residue with water.
Waste disposal method: Any unsalvageable material must be disposed in compliance with local, state, and federal laws and regulations.

SECTION 10 - STORAGE AND HANDLING

- Store in a cool dry ventilated area. Observe Building Code and NFPA storage requirements.
- Keep container sealed/closed when not in use. Avoid dust formation.

Note: Product should be used as directed on the label. No warranty is implied expressly or otherwise regarding the accuracy of the information in the product’s suitability for the consumer’s use and the outcome of its use. The technical accuracy of the information submitted herein is based on the data submitted to TCI by the manufacturers for the materials used in this finished product.