## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>: Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>: Heavy Duty Laundry Detergent</td>
</tr>
<tr>
<td>Product code</td>
<td>: 525</td>
</tr>
</tbody>
</table>

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

| Use of the substance/mixture | : Detergent               |

### 1.3. Details of the supplier of the safety data sheet

Crestek Cleaning Center, Inc.  
1161 Kapiolani Blvd.  
Honolulu, HI 96814  
T 1-(808) 942-2500

### 1.4. Emergency telephone number

| Emergency number | : CHEMTEL: 800-255-3924 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>GHS US classification</th>
<th>Skin Irrit. 2</th>
<th>H315</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eye Dam. 1</td>
<td>H318</td>
</tr>
</tbody>
</table>

Full text of H statements: see section 16

### 2.2. Label elements

**GHS US labeling**

**Hazard pictograms**

![GHS05](image)

<table>
<thead>
<tr>
<th>Signal word</th>
<th>: Danger</th>
</tr>
</thead>
</table>
| Hazard statements | : Causes skin irritation.  
                  | Causes serious eye damage. |
| Precautionary statements | : Wash hands and forearms thoroughly after handling.  
                           | Wear eye protection, face protection, protective clothing, protective gloves.  
                           | If on skin: Wash with plenty of water.  
                           | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
                           | Immediately call a poison center or doctor/physician.  
                           | If skin irritation occurs: Get medical advice/attention.  
                           | Take off contaminated clothing and wash before reuse. |

### 2.3. Hazard not otherwise classified (HNOC)

No additional information available.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable.

*(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)*

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.*

Full text of H-phrases: see section 16

### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium carbonate</td>
<td>(CAS-No.) 497-19-8</td>
<td>60 - 65</td>
<td>Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>
**Heavy Duty Laundry Detergent**  
Safety Data Sheet

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
</table>
| disodium metasilicate, pentahydrate       | (CAS-No.) 10213-79-3   | 5 - 10 | Acute Tox. 4 (Oral), H302  
Skin Corr. 1B, H314  
STOT SE 3, H335 |
| alcohols, C9-11, ethoxylated              | (CAS-No.) 68439-46-3   | 1 - 5 | Acute Tox. 4 (Oral), H302  
Skin Irrit. 2, H315  
Eye Dam. 1, H318 |

(Note: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

**SECTION 4: First aid measures**

4.1. **Description of first aid measures**

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact

If skin irritation or rash occurs: Brush off loose particles from skin. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation persists, get medical attention.

First-aid measures after eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. **Most important symptoms and effects, both acute and delayed**

Symptoms/effects

Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Symptoms/effects after skin contact

May cause moderate irritation.

Symptoms/effects after eye contact

Causes serious eye damage.

Symptoms/effects after ingestion

FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa. Irritation of the oral mucous membranes.

4.3. **Indication of any immediate medical attention and special treatment needed**

No additional information available.

**SECTION 5: Firefighting measures**

5.1. **Extinguishing media**

Suitable extinguishing media

Extinguishing media for surrounding fires. Adapt extinguishing media to the environment.

Unsuitable extinguishing media

No unsuitable extinguishing media known.

5.2. **Special hazards arising from the substance or mixture**

No additional information available.

5.3. **Advice for firefighters**

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

Other information

No additional information available.

**SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

General measures

Isolate from fire, if possible, without unnecessary risk.

6.1.1. **For non-emergency personnel**

Protective equipment

Protective goggles.  
Protective gloves.  
Protective clothing.  
Respiratory protection.

Emergency procedures

Evacuate unnecessary personnel.

6.1.2. **For emergency responders**

Protective equipment

Equip cleanup crew with proper protection.

Emergency procedures

Ventilate area.

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for containment and cleaning up

For containment: Dam up the solid spill. If reacting: dilute toxic gas/vapor with water spray.

Methods for cleaning up: Collect the spill only if it is in a dry state. Wetted substance: cover with powdered limestone or dry sand, earth, vermiculite. Minimize generation of dust. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Store away from other materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Handle and open the container with care. Observe normal hygiene standards. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Provide local exhaust or general room ventilation. Comply with applicable regulations.


Storage area: Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of insufficient ventilation, wear suitable respiratory equipment.

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Color: Blue
Odor: Faint lemon
Odor threshold: No data available
pH: No data available
pH (1%) solution: 10.7 - 11.7
Melting point: No data available
Freezing point: No data available
Boiling point: 212 °F
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): No data available
Explosion limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Specific Gravity @ 77º F: No data available
Solubility: Soluble in water
Partition Coefficient n-Octanol-Water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available

9.2. Other information
VOC content: 0 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid
Extremely high or low temperatures.

10.5. Incompatible materials
Strong acids. Oxidizers.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified

disodium metasilicate, pentahydrate (10213-79-3)
- LD50 oral rat: 847 mg/kg
- ATE US (oral): 847 mg/kg body weight

sodium carbonate (497-19-8)
- LD50 oral rat: 2800 mg/kg (Rat; Experimental value)
- LD50 dermal rabbit: > 2000 mg/kg (Rabbit; Experimental value)
- ATE US (oral): 2800 mg/kg body weight

alcohols, C9-11, ethoxylated (68439-46-3)
- LD50 oral rat: 1378 mg/kg (Rat)
- LD50 dermal rabbit: > 2000 mg/kg (Rabbit)
- ATE US (oral): 1378 mg/kg body weight

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity – single exposure: Not classified
Specific target organ toxicity – repeated exposure: Not classified
Aspiration hazard: Not classified
Symptoms/effects after skin contact: May cause moderate irritation.
Symptoms/effects after eye contact: Causes serious eye damage.
Symptoms/effects after ingestion: FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa. Irritation of the oral mucous membranes.
### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Chemical</th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
<th>EC50 fish 2</th>
<th>EC50 Daphnia 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>disodium metasilicate, pentahydrate (10213-79-3)</td>
<td>210 mg/l (96 h; Brachydanio rerio; Anhydrous form)</td>
<td>216 mg/l (96 h; Daphnia magna; Anhydrous form)</td>
<td>2320 mg/l (96 h; Gambusia affinis; Anhydrous form)</td>
<td>632 mg/l (96 h; Lymnaea sp.; Anhydrous form)</td>
</tr>
<tr>
<td>sodium carbonate (497-19-8)</td>
<td>300 mg/l (96 h; Lepomis macrochirus)</td>
<td>&lt; 424 mg/l (48 h; Daphnia magna)</td>
<td>14 mg/l (168 h; Plankton)</td>
<td>740 mg/l (96 h; Gambusia affinis)</td>
</tr>
<tr>
<td>alcohols, C9-11, ethoxylated (68439-46-3)</td>
<td>5.7 mg/l (Rainbow trout)</td>
<td>2.5 mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Persistence and degradability</th>
<th>Biodegradability: not applicable.</th>
<th>Other aquatic organisms 1</th>
<th>EC50 other aquatic organisms 1</th>
<th>TLM fish 1</th>
<th>TLM other aquatic organisms 1</th>
<th>EC50 other aquatic organisms 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>disodium metasilicate, pentahydrate (10213-79-3)</td>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable.</td>
<td>Other aquatic organisms 1</td>
<td>EC50 other aquatic organisms 1</td>
<td>TLM fish 1</td>
<td>TLM other aquatic organisms 1</td>
<td>EC50 other aquatic organisms 1</td>
</tr>
<tr>
<td>sulphuric acid (16285-51-0)</td>
<td>Persistence and degradability</td>
<td>Biodegradability: not applicable.</td>
<td>Other aquatic organisms 1</td>
<td>EC50 other aquatic organisms 1</td>
<td>TLM fish 1</td>
<td>TLM other aquatic organisms 1</td>
<td>EC50 other aquatic organisms 1</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Bioaccumulative potential</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>disodium metasilicate, pentahydrate (10213-79-3)</td>
<td>No bioaccumulation data available.</td>
<td>Low potential for absorption in soil.</td>
</tr>
</tbody>
</table>

#### 12.4. Other adverse effects

No additional information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- **Product/Packaging disposal recommendations**: Dispose of contents/container in accordance with Local, State, and Federal regulations.
- **Ecology - waste materials**: Avoid release to the environment.

### SECTION 14: Transport information

#### 14.1. UN Number

- **UN-No.(DOT)**: Not Regulated
- **Other information**: No supplementary information available.
14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not Regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS-No.</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>disodium metasilicate, pentahydrate</td>
<td>10213-79-3</td>
<td>5 - 10%</td>
</tr>
</tbody>
</table>

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**disodium metasilicate, pentahydrate (10213-79-3)**

Disodium metasilicate, pentahydrate the anhydrous form of this material is listed on the EPA TSCA inventory under the CAS no. 6834-92-0.

**sodium carbonate (497-19-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

**alcohols, C9-11, ethoxylated (68439-46-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

**EU-Regulations**

No additional information available.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Not classified

**15.2. International regulations**

**CANADA**

**alcohols, C9-11, ethoxylated (68439-46-3)**

Listed on the Canadian DSL (Domestic Substances List).

**15.3. US State regulations**

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

**Abbreviations Legend:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

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