SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Ver-tech Labs
6801 Bleck Drive
Rockford, MN 55373
1-877-866-9742

Product Name: Thunderbolt
Product Code: THU100
Recommended Use: Truck wash Detergent/High pH Presoak
Revision Date: 5/19/2015

Chemical Emergency: Infotrac: 1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Classification

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion</td>
<td>1</td>
</tr>
<tr>
<td>Serious Eye Damage</td>
<td>1</td>
</tr>
</tbody>
</table>

Signal Word

DANGER!

Hazard Statements

Causes severe skin burns and eye damage
Causes serious eye damage

Precautionary Statements - Prevention

Wash thoroughly after handling
Do not breathe mists or vapors
Wear protective gloves and eye protection

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

SECTION 3: INFORMATION ON HAZARDOUS INGREDIENTS

Product is a mixture according to 29 CFR 1910.1200.

Hazardous Components

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>Cas #</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium metasilicate</td>
<td>6834-92-0</td>
<td>0 - 20%</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>0 - 20%</td>
</tr>
<tr>
<td>Proprietary Blend</td>
<td>Trade Secret</td>
<td>0 - 20%</td>
</tr>
</tbody>
</table>

Specific chemical identity and/or exact percentage of components has been withheld in accordance with a trade secret claim according to Appendix E 29 CFR 1910.1200.

SECTION 4: FIRST-AID MEASURES

First Aid Measures

General Advice: Keep out of reach of children. Use with care.

Eye Contact: Immediately flush with cool running water for at least 15 minutes while holding eyelids apart. Do not rub affected area. Remove contact lenses if applicable.

Skin Contact: Wash off immediately with soap and water while removing all contaminated clothes and shoes.
Ingestion: If swallowed, call immediately for emergency medical assistance. DO NOT induce vomiting. Rinse mouth with water and drink 1-2 glasses of water. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air.

**Most Important Symptoms and Effects**

**Symptoms:** Severe burns to eyes, skin, and respiratory tract.

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

**Note to Physician:** Treat symptomatically.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Flammable Properties**

**Flammability:** Not considered to be a fire hazard.

**Explosive Prop:** No information available.

**Extinguishing Media**

**Suitable:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable:** No information available.

**Specific Hazards Arising from Chemical**

**Hazards:** This product causes burns of eyes, skin and mucous membranes. Thermal decomposition may lead to release of irritating and toxic vapors. In the event of fire and/or explosion do not breathe fumes.

**Protective equipment and precautions for fire-fighters**

**Fire-Fight Method:** In the event of a fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Evacuate personnel to safe areas. Isolate hazard area and deny entry. Stay upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes or clothing.

**Environ. Precautions:** Prevent release to the environment if possible. Dike large spills to prevent material from entering streams or sewer systems.

**Clean-Up Method:** Soak-up with inert absorbent material and place into appropriate container for disposal. Clean contaminated area thoroughly with water. Prevent product from entering drains.

**SECTION 7: HANDLING AND STORAGE**

**Handling:** Use personal protective equipment when needed. Avoid contact with skin, eyes, and clothing. Wash hands before eating, drinking, or smoking. Remove contaminated clothes and wash before reuse. Use in a ventilated area.

**Storage:** Store in closed containers in cool, dry, well-ventilated area. Avoid overheating or freezing. Keep in properly labeled containers and out of reach of children.

**Incomp. Materials:** Strong acids and bases. Oxidizing agents. Prolonged exposure with alkali sensitive metals and alloys.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Hazardous Chemical</th>
<th>TLV - TWA</th>
<th>TLV - STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium metasilicate</td>
<td>3 mg/m3</td>
<td>No information available</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>15 mg/m3</td>
<td>No information available</td>
</tr>
<tr>
<td>Proprietary Blend</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

**Eng. Controls:** Ensure adequate ventilation, especially in confined areas.

**Personal Protection Equipment (PPE)**

**Eyes:** Recommend safety goggles or shield.

**Respiratory:** Not usually necessary where ventilation is sufficient to maintain vapors under the TLV limit.
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>12 - 14</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.05 - 1.15</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not determined</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>Not determined</td>
</tr>
<tr>
<td>Part. Coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition Temp</td>
<td>Not determined</td>
</tr>
<tr>
<td>Dep. Temp</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

**SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable under ordinary conditions of use and storage.

Haz. Decomposition: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Haz. Polymerization: No information available.


Conditions to Avoid: Heat, moisture and incompatibles.

**SECTION 11: TOXICOLOGY INFORMATION**

Component Information

<table>
<thead>
<tr>
<th>Hazardous Chemical</th>
<th>LD50 Oral Oral</th>
<th>LD50 Dermal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium metasilicate</td>
<td>600 mg/kg (rat)</td>
<td>No information available</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>4090 mg/kg (rat)</td>
<td>No information available</td>
</tr>
<tr>
<td>Proprietary Blend</td>
<td>Not Determined</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Potential Health Effects

Exposure Routes: Eye Contact, Dermal Contact, Ingestion, Inhalation

Acute Toxicity:

- **Eyes:** Causes eye irritation with tearing, redness, and impaired vision.
- **Skin:** Causes skin irritation, redness, and itching. May cause chemical burns.
- **Ingestion:** Harmful if swallowed. Corrosive to mucous membranes, esophagus and stomach.
- **Inhalation:** Respiratory irritant.

Chronic Effects: Avoid repeated exposure. May aggravate pre-existing medical conditions including eye, skin and respiratory disorders.

Carcinogenicity: Not listed as a carcinogen by OSHA, NTP or IARC.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity

<table>
<thead>
<tr>
<th>Hazardous Chemical</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium metasilicate</td>
<td>No information available</td>
<td>No information available</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>300 - 320 mg/l (96 h: Bluegill sunfish)</td>
<td>265 mg/l (48 : Daphnia)</td>
</tr>
<tr>
<td>Proprietary Blend</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Environmental Toxicity

Biodegradation: No information available.

Persistence: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

5/19/2015
SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Recover or recycle if possible. Disposal should be in compliance with applicable federal, state, and local regulations. Do not dispose of in the environment, in sewage, and/or in drains.

Container: Drain contaminated container thoroughly. Triple rinse containers.

SECTION 14: TRANSPORT INFORMATION

Transport in accordance with all federal, state, and local regulations.

DOT

Proper Name: NA
Hazard Class: NA
UN Number: NA
Packing Group: NA
Special Provisions: Not regulated as dangerous goods.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All components of this product are listed or exempt from listing on TSCA inventory.

CERCLA Reportable Quantity: None

Section 311/312 Hazard Category

Acute Health Hazard: No
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

Section 313 Toxic Chemicals: None

SECTION 16: OTHER INFORMATION

Prepared by: Health and Safety Department
Contact Number: 1-877-866-9742
Issue Date: 5/19/2015
Revision Date: 5/19/2015
Revision Note: MSDS converted to GHS compliant SDS format
Version: 1

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End of Safety Data Sheet