

#### SAFETY DATA SHEET

**Product Name:** 

#### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Ver-tech Solutions & Service

> **Product Code:** 6801 Bleck Drive

Rockford, MN 55373

763-577-4050

Recommended Use: Machine dishwashing detergent

**Revision Date:** 5/19/2015

Metal Safe

VSS020

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

## SECTION 2: HAZARDS IDENTIFICATION

## **GHS Hazard Classification**

Skin Corrosion/Irritation	Category I
Serious Eye Damage/Eye Irritation	Category I
Specific Target Organ Toxicity (Single Exposure)	Category I
Corrosive to Metals	Category I

# Signal Word

## **DANGER!**





**Precautionary Statements - Prevention** 

Do not breathe dust/fume/gas/mist/vapors/spray

## **Hazard Statements**

Causes severe skin burns and eye damage

Causes serious eye damage

Causes damage to organs

May be corrosive to metals Do not eat, drink or smoke when using this product

Keep only in original container

Wash thoroughly after handling

#### **Precautionary Statements - Response**

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

Call a POISON CENTER or doctor/physician if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

Absorb spillage to prevent material damage

## **Precautionary Statements - Storage**

## **Precautionary Statements - Disposal**

Wear protective gloves/protective clothing/eye protection/face protection

Store locked up.

Dispose of contents/container to an approved waste disposal plant

Store in a corrosive resistant container with a resistant inner liner

## **SECTION 3: INFORMATION ON HAZARDOUS INGREDIENTS**

Product is a mixture according to 29 CFR 1910.1200.

### **Hazardous Components**

Hazardous Ingredients	Cas #	Weight %
Potassium hydroxide	1310-58-3	5 - 15%
Sodium silicate	1344-09-8	0 - 10%

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical

attention.

## **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:** Product is a corrosive material. Treat symptomatically.

## **SECTION 5: FIRE-FIGHTING MEASURES**

#### Flammable Properties

Flammability: Not considered to be a fire hazard.

Explosive Prop: Not considered to be an explosion hazard.

## **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: 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.

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; aluminum, tin, zinc.

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

## **Exposure Guidelines**

Hazardous Chemical	TLV - TWA	TLV - STEL
Potassium hydroxide	2 mg/m3	No information available
Sodium silicate	No information available	No information available

#### **Appropriate Engineering Controls**

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

## Personal Protection Equipment (PPE)

**Eyes:** Recommend tight sealing safety goggles or face protection shield.

Respiratory: Not usually necessary where ventilation is sufficient to maintain vapors under the TLV limit.

**Skin:** Avoid skin contact. Recommend chemical resistant gloves.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State: Freezing Point:** Not determined Liquid Appearance: Pale red liquid **Boiling Point:** Not determined Color: Light red/pink **Evaporation Rate:** Not determined Odor: Pale red/pink **Vapor Pressure:** Not determined **Odor Threshold:** Not determined No information available **Vapor Density:** pH: 12.0 - 13.0 **Relative Density:** Not determined Flash Point: Not determined Flammability: Not determined Water Solubility: Soluble in water **Explosive Limits:** Not determined Not determined Part. Coefficient: **Viscosity:** Not determined **Specific Gravity:** 1.15 - 1.16 **Auto-ignition Temp:** Not determined **Melting Point:** Not determined Not determined Decomp. Temp:

#### 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.

**Incompatibilities:** Strong acids and bases; oxidizing agents; aluminum, tin, zinc.

Conditions to Avoid: Heat, moisture and incompatibles.

## SECTION II: TOXICOLOGY INFORMATION

#### **Component Information**

Hazardous Chemical	LD50 Oral	LD50 Dermal
Potassium hydroxide	214 mg/kg (rat)	No information available
Sodium silicate	I I 53 mg/kg (rat)	4640 mg/kg (rabbit)

### **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. **Inhalation:** Respiratory irritant.

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

## **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Hazardous Chemical	Toxicity to Fish	Toxicity to Invertebrates
Potassium hydroxide	80 mg/L: 96 h Gambusia affinis	No information available
Sodium silicate	301 - 478 mg/L: 96 h Lepomis macrochirus	216 mg/L: 96 h Daphnia magna

## **Environmental Toxicity**

Biodegradation: No information available.

Persistence: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

## **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:** Corrosive Liquid, Basic, Inorganic, n.o.s. (Potassium Hydroxide)

Hazard Class: 8 UN Number: UN3266

Packing Group:

**Special Provisions:** Based on package size, product may be eligible for limited quantity exception.

# **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: Potassium Hydroxide: 1000 lbs.

#### Section 311/312 Hazard Category

Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Sudden Release of Pressure Hazard: Yes
Reactive Hazard: Yes
Section 313 Toxic Chemicals

# SECTION 16: OTHER INFORMATION

**Prepared by:** Health and Safety Department

 Contact Number:
 763-577-4050

 Issue Date:
 4/10/2015

 Revision Date:
 5/19/2015

**Revision Note:** Updated raw material information

Version:

**Disclaimer:** The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. This information is

offered for your information, consideration, and investigation. Ver-tech Solutions & Service cannot anticipate all conditions under which this information and its product may be used. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. It is the user's

responsibility to assume liability for loss, injury, damage or expense due to improper use.

End of Safety Data Sheet