



## SAFETY DATA SHEET

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

<b>Manufacturer:</b> Ver-tech Solutions & Service 6801 Bleck Drive Rockford, MN 55373 763-577-4050	<b>Product Name:</b> Break Plus <b>Product Code:</b> VSS200 <b>Recommended Use:</b> Laundry <b>Revision Date:</b> 5/18/2015	
<b>Chemical Emergency:</b> Infotrac: 1-800-535-5053		

### SECTION 2: HAZARDS IDENTIFICATION

#### GHS Hazard Classification

Acute Toxicity - Oral	Category 4
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!**



#### Hazard Statements

Harmful if swallowed  
 Causes severe skin burns and eye damage  
 Causes serious eye damage  
 Causes damage to organs  
 May be corrosive to metals

#### Precautionary Statements - Prevention

Wash thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep only in original container

#### 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  
 Absorb spillage to prevent material damage

#### Precautionary Statements - Storage

Store locked up.  
 Store in corrosive resistant container with a resistant inner liner.

#### 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

Hazardous Ingredients	Cas #	Weight %
Sodium Hydroxide, Caustic Soda	1310-73-2	30 - 40%

*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:** Contains Sodium Hydroxide. Harmful or fatal if swallowed. Wear protective clothing when handling this product. 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:** Product is a corrosive material. 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. Aluminum, Tin, and Zinc.

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

Hazardous Chemical	TLV - TWA	TLV - STEL
Sodium Hydroxide, Caustic Soda	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

**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.

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

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical State:</b>	Liquid	<b>Freezing Point:</b>	Not determined
<b>Appearance:</b>	Clear Liquid	<b>Boiling Point:</b>	Not determined
<b>Color:</b>	Colorless	<b>Evaporation Rate:</b>	Not determined
<b>Odor:</b>	Odorless	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	No information available	<b>Vapor Density:</b>	Not determined
<b>pH:</b>	14.00	<b>Relative Density:</b>	Not determined
<b>Flash Point:</b>	Not determined	<b>Flammability:</b>	Not determined
<b>Water Solubility:</b>	Soluble in water	<b>Explosive Limits:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>Part. Coefficient:</b>	Not determined
<b>Specific Gravity:</b>	1.4 - 1.5	<b>Auto-ignition Temp:</b>	Not determined
<b>Melting Point:</b>	Not determined	<b>Decomp. Temp:</b>	Not determined

**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, strong oxidizing agents. Aluminum, Tin, and Zinc.

**Conditions to Avoid:** Heat, moisture and incompatibles.

**SECTION 11: TOXICOLOGY INFORMATION****Component Information**

Hazardous Chemical	LD50 Oral	LD50 Dermal
Sodium Hydroxide, Caustic Soda	Not Determined	1350 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. 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**

Hazardous Chemical	Toxicity to Fish	Toxicity to Invertebrates
Sodium Hydroxide, Caustic Soda	45.4: 96 h Oncorhynchus mykiss mg/L	Not determined

**Environmental Toxicity**

- Biodegradation:** No information available.
- Persistence:** This product is alkaline and may raise the pH of surface waters.
- Bioaccumulation:** This product is believed not to bioaccumulate.
- 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. (Sodium Hydroxide)
- Hazard Class:** 8
- UN Number:** UN3266
- Packing Group:** II
- 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:** Sodium Hydroxide, 1000 lbs.

**Section 311/312 Hazard Category**

- Acute Health Hazard:** Yes
- 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:** 763-577-4050
- Issue Date:** 5/18/2015
- Revision Date:** 5/18/2015
- Revision Note:** MSDS converted to GHS compliant SDS format
- Version:** I

**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