

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Ver-tech Labs Product Name: Tsunami Fleet Wash

6801 Bleck Drive Product Code: TSU100

Rockford, MN 55373 Recommended Use: High pH Detergent

1-877-866-9742 **Revision Date:** 5/30/2015

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

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Classification

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

Signal Word

DANGER!





Hazard Statements

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

Wear protective gloves and eye protection

Do not breathe mists or vapors

Do not eat, drink or smoke when using this product

Keep only in original container

Precautionary Statements - Response

IF ON SKIN (or hair): Remove all contaminated clothing immediately. 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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Precautionary Statements - Disposal

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 %
Sodium Hydroxide, Caustic Soda	1310-73-2	0 - 10%
2-butoxyethanol	111-76-2	0 - 10%
Proprietary Blend	Trade Secret	5 - 15%

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, may cause burning of the mouth, throat and stomach. Call immediately for medical assistance. DO NOT induce

vomiting. Rinse mouth with water, then drink I-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: Not considered to be an explosive hazard.

Extinguishing Media

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

Unsuitable: Adding water to caustic solution generates large amounts of heat.

Specific Hazards Arising from Chemical

Hazards: The 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	OSHA PEL	ACGIH TLV
Sodium Hydroxide, Caustic Soda	2 mg/m3	2 mg/m3
2-butoxyethanol	50 ppm	20 ppm

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	Proprietary Blend	Not Determined	Not Determined
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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

Physical State: Liquid **Freezing Point:** Not determined Clear liquid **Boiling Point:** Not determined Appearance: Color: Colorless Not determined **Evaporation Rate:** Odor: Odorless **Vapor Pressure:** Not determined **Odor Threshold:** No information available **Vapor Density:** Not determined pH: 13.5 **Relative Density:** Not determined Flash Point: Not determined Flammability: Not determined Water Solubility: Soluble in water **Explosive Limits:** Not determined **Viscosity:** Not determined Part. Coefficient: Not determined 1.08 **Specific Gravity: Auto-ignition Temp:** Not determined **Melting Point:** Not determined Decomp. Temp: 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)
2-butoxyethanol	I,300 mg/kg (rat)	> 2,000 mg/kg (rat)
Proprietary Blend	Not Determined	Not Determined

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 classifiable as a human 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	
2-butoxyethanol 1,474 mg/l (96 h: Oncorhynchus mykiss)		1,550 mg/l (48 h: water flea)	
Proprietary Blend Not Determined		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. Do not reuse container.

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:

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.

U.S. State Right-to-Know Regulations

Hazardous Chemical	California Proposition 65
None	

Section 311/312 Hazard Category

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	1310-73-2	Sodium hydroxide	0 - 10%
Acute Health Hazard:	111-76-2	2-butoxyethanol	0 - 10%
Chronic Health Hazard:	1310-73-2	Sodium hydroxide	0 - 10%
Fire Hazard:	111-76-2	2-butoxyethanol	0 - 10%
Sudden Release of Pressure:	No		
Reactive Hazard:	1310-73-2	Sodium hydroxide	0 - 10%
Section 313 Toxic Chemicals	111-76-2	2-butoxyethanol	0 - 10%

SECTION 16: OTHER INFORMATION

Prepared by: Health and Safety Department

 Contact Number:
 1-877-866-9742

 Issue Date:
 5/30/2015

 Revision Date:
 5/30/2015

Revision Note: MSDS converted to GHS SDS format

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 Labs 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.