MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identity (As Used on Label and List): Tornado Degreaser (TOR110)

Product Class: Water-based Degreaser Emergency Telephone Number: 800-

800-535-5053 Telephone Number for Information: 763-509-7937

Manufacturer's Name and Address:

Ver-tech Labs 6801 Bleck Drive Rockford, MN 55373

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity):

Common Name(s) Chemical 2-Butoxy ethanol CAS #111-76-2 Sodium hydroxide CAS #1310-73-2 В

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odor: Yellow liquid, citrus aroma.

Primary Hazards: Corrosive

Potential Health Hazards

Route(s) of Entry: Ingestion: X Inhalation: X

(s) of Entry: Skin Absorption: X
May cause chemical burns on contact. May cause chemical burns on contact. Skin: May be harmful if swallowed. Ingestion:

Inhalation: Overexposure to butyl vapors may be harmful.

Signs and Symptoms of Exposure: Eye Contact: Possible burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed. Inhalation: Overexposure to 2-Butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headache nausea and dizziness.

Carcinogenicity: NTP? No IARC Monographs? No

OSHA Regulated? No

Target Organ (s): Eyes, skin, liver, kidneys, lymphoid system, respiratory system

Medical Conditions Generally Aggravated by Exposure: N. Av.

Health Hazards, Chronic: Overexposure to 2-Butoxy ethanol may cause damage to

one or more of the target organs listed above.

SECTION IV - FIRST AID MEASURES

Emergency and First Aid Procedures:

For Eye Contact: Immediately flush eyes with sanitary eye wash solution or running water for at least 15 minutes. Obtain medical attention. Continue to flush eyes until medical attention arrives. **If Swallowed:** Do not induce vomiting. Drink two glasses of water, follow with orange juice and immediately call a physician. For Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. Never give anything by mouth to an unconscious person. For Overexposure to Vapors: Remove victim to fresh air, keep warm, quiet and contact a physician.

Raw material data, Sources Used: general toxicology from the trade for

LEL

UEL

similar products.

SECTION V - FIRE FIGHTING MEASURES

Flammability: No Autoignition Temperature:

Flash Point (method used): None

Flammable Limits: N. Ap.
Extinguishing Media N. Ap.

Water? Water Fog? Foam? Alcohol Foam? CO₂? Dry Chemical?

Vaporizing Liquid? Other? Special Fire Fighting Procedures: N. Ap.
Unusual Fire and Explosion Hazards: N. Av.
TDG Flammability Classification: Non-flamm Non-flammable

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in Case Material is Released or Spilled:

Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area

SECTION VII - HANDLING AND STORAGE

Precautions to be taken in Handling and Storing:

Normal care in handling and storage.

Other Precautions: Keep out of reach of children. Keep from freezing

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Respiratory Protection (Specify Types): Not required where ventilation is sufficient to maintain 2-Butoxy ethanol vapor level below listed TLV. Use NIOSH/MSHA approved organic vapor respirator in areas where vapor level exceeds TLV.

Local Exhaust: Not required Special: Not require Mechanical (General): As required to keep vapor levels below Special: Not required Ventilation: TLV & PEL, listed in Section XI. Other: Not required

Protective Gloves: Natural rubber or synthetic.

Eye Protection: Approved safety goggles or shield. Footwear: Rubber footwear.

Other Protective Clothing or Equipment: Not required

Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N. Av. Specific Gravity (H20) = 1: 1.05 **pH:** 13 - 14 % Volatile: N. Av. Vapor Density (Air = 1): N. Av.
Evaporation Rate (Butyl Acetate = 1): N. Av. Odor Threshold: N. Av. Oil/Water Distribution Solubility in Water: Complete Coefficient: N. Av. Vapor Pressure (MM HG): N. Av Melting Point: N. Ap

SECTION X - STABILITY AND REACTIVITY

Stability: Unstable: Stable:

Conditions to Avoid: N. Ap.

Incompatibility (materials to avoid): N. Av.

Hazardous Decomposition or By-products: N. Av.

Hazardous Polymerization: May occur: Will not occur: X

Conditions to Avoid: N. Ap.

SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50	
Α	50 ppm (skin)	20 ppm (skin)	N. Av.	470 mg/kg (rat, oral)	N. Av.	
В	2 mg/m3 (skin)	2 mg/m2 (skin)	N. Av.	140 mg/kg (rat. oral)	N. Av.	

Teratogen, Mutagen, Reproductive Toxin Status: No data with known relevance

Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicological Information: N. Av. Chemical Fate Information: N. Av

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewered, depending on the materials and/or contaminates being cleaned as well as state, federal and local sewer commission regulations.

RCRA Hazard Class: DOO2, characteristic corrosive.

SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: corrosive liquid, basic inorganic, N.O.S. (Sodium Hydroxide),

UN Number: 3266

Packing Group: II

SECTION XV - PREPARATION DATA

Prepared By: Health and Safety Department

Telephone Number: 763-509-7937

Date: 1/21/2015

SECTION XVI - REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All ingredients listed. CERCLA Reportable Quality: N. Av.

SARA Title III

Section 302 Extremely Hazardous Chemicals: None

Section 311/312 Hazard Category: Immediate health, chronic health Section 313 Toxic Chemicals: Glycol ether

SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N.Av. - Not Available

NFPA SYSTEM

2 A. Health Hazard _0_ A. Fire Hazard _0_ A. Reactivity Hazard