

# MATERIAL SAFETY DATA SHEET

Emergency telephone (262) 251-4977

Name: Alliance Group, Inc. Address: N114 W18621 Clinton Drive  
City: Germantown State: Wisconsin Zip Code: 53022  
Product name: Voltreet FP-20  
Product code: 0180

## Section II - Hazardous Ingredient

CAS Number	Chemical Component	%	TLV ppm	Vapor Pressure
100-37-8	Diethylaminoethanol	<45	10	1.0

## Section III-Physical Data

Solid:	Liquid: X	Appearance:	water white
Weight/gal:	8.33 lbs/gal	Odor:	amine
Solubility in water:	Complete	Freezing Point:	unknown
Boiling Point	212°- 326 f	pH:	>11.0
Vapor Density:	Heavier than air	Evaporation Rate:	slower than ether

## Section IV - Fire and Explosive Data

Hazard Classification: Corrosive DOT:8  
Flash Point(TCC): None At 212 Deg F. sample vapors extinguished test flame within cup. Pensky-Martin Closed Cup Tester  
Lower Explosion Limit % by volume (in air): Not Available

Extinguishing Media: Alcohol type or all-purpose foam. Carbon Dioxide or dry chemical.

Special Fire Hazards and Equipment Required: Use self contained breathing apparatus and wear full protective clothing.

Unusual Fire and Explosion Hazard: Low solubility in water may cause danger of a floating fire. May emit highly toxic fumes when heated.

## Section V - Health Hazards

**Eyes:** Liquid causes severe irritation, experienced as discomfort or pain, excess blinking and tear production, marked excess redness and swelling of the conjunctiva, and chemical burns of the cornea. Cornea injury may be severe, extensive, and if not treated promptly, could result in permanent impairment of vision. Vapor may cause temporary disturbance of vision. High vapor concentration may cause irritation, excess blinking and tear production.

**Skin:** Causes chemical burns with discomfort or pain, severe excess redness and swelling, tissue destruction, fissures, ulceration, and possible bleeding into the inflamed area.

**Skin Absorption:** Prolonged or widespread contact may result in the absorption of potentially harmful amounts of material.

**Ingestion:** Moderately toxic by swallowing. Causes severe irritation or chemical burns of the mouth, throat, esophagus, and stomach, with pain or discomfort in the mouth, throat, chest, and abdomen. Nausea, vomiting, diarrhea, dizziness, drowsiness, thirst, faintness, weakness, circulatory collapse and coma may occur. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

**Inhalation:** May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, coughing, and possibly accompanied by chest pain. There may be difficulty breathing. Prolonged exposure may cause local injury to the respiratory tract.

**Chronic effects of overexposure:** Dermatitis.

**Target Organ Toxin:** Eyes, Skin, Respiratory System, and Mucous Membranes

**Principal Routes of Exposure:** Inhalation, eye contact, skin absorption

**Effects of repeated Overexposure:** Repeated skin contact may result in dermatitis. Prolonged or repeated overexposure to vapor may cause inflammation of the nose and upper respiratory tract.

**Medical Conditions Aggravated by Overexposure:** Skin contact may aggravate dermatitis. Inhalation of material may aggravate asthma and inflammatory or fibrotic pulmonary disease.

-----  
**First Aid Procedure-Never give fluids or induce vomiting if patient is unconscious or having convulsions.**

**CALL A PHYSICIAN**

-----  
**Eyes:** Immediately flush with plenty of cool water for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

**Skin:** Immediately flush skin with plenty of water while removing contaminated clothing. Wash clothing before reuse. Call a physician.

**Ingestion:** Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air. Give artificial respiration ( preferably mouth to mouth) if not breathing. If breathing is difficult give oxygen by a qualified personnel. Call a physician.

**Notes to Physician :** There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

---

---

### Section VI- Reactive Hazards

---

---

Product Stable: NO                    YES XX

Hazardous Polymerization:            will not occur

Conditions to avoid: Heat/fire. Severe oxidizing conditions

Incompatibility: strong acids and strong oxidizing agents

Hazardous Decomposition Products: Burning can produce CO, CO<sub>2</sub> and nitrogen oxide  
Toxic vapors.

---

---

### Section VII- Spill or Leak Control Procedures

---

---

Steps to be taken in case of spills: Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards. Contact local authorities. Wear suitable protective equipment. Collect large spills for disposal. Flush small spills with water. Soak up with sawdust, sand, oil dry, or other absorbent material.

\*\*Toxic to fish. Avoid discharge to natural waters.\*\*

Waste Disposal Methods: Incinerate in furnace where permitted under appropriate Federal, State, and Local regulations. Dispose of spilled, neutralized, or waste product, contaminated soil and other material in accordance with all federal, state and local regulations.

---

---

### Section VIII - Exposure Controls/Personal Protection

---

---

Respiratory Protection:

Use an appropriate NIOSH/MSHA approved respirator following manufactures recommendations.

Protective Equipment:

Eyes: Chemical safety goggles. Face shield

Gloves: Consult the glove manufacturer for the most appropriate glove material.

Other: Eye bath and safety shower. Wear protective equipment clothing to prevent repeated or prolonged contact. Chemically resistant shoes or boots. Decontaminate clothing before reuse.

Ventilation Requirements:

General (mechanical) room ventilation to maintain vapor levels below TLV is expected to be satisfactory. Keep this product in closed equipment.

Special, local ventilation is needed at points where vapors or mists are expected to escape to the workplace air.

---

---

**Section IX- Special Precautions**

---

---

Precautions to be taken in handling and storing: DANGER! Harmful, if absorbed through skin. Causes eye and skin burns. Vapor extremely irritating. May cause allergic skin reactions. Combustible. Do not get in eyes, on skin, on clothing.

Do not breathe vapor or mist. Use only with adequate ventilation. Keep away from heat and flame. Wash thoroughly after handling. Keep container closed. Store in tightly closed container. Store in cool, dry, ventilated area. Accidental contact should be washed away immediately. Corrosive.

Other Precautions: Wash contaminated clothing before reuse. Product residue may remain on or in "empty" containers. Use product handling precautions for "empty" containers. Clean before reusing or altering container. Maintain workroom air concentrations below the specified TLV's. DO NOT USE sodium nitrite or nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.

SECTION 313 Supplier Notification: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right - To - Know Act of 1986 and of 40 CFR 372:

<u>CAS #</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>
N/A	N/A	N/A

HMIS Rating:      Health            2  
                         Flammability      1  
                         Reactivity         0

**NOTE: This product is not to be used in systems where the steam from the boiler is used for humidifications.**

-----  
The above information is believed to be accurate and discloses the known hazards for this product as of this date. No additional warranties are made.  
Date: July 17, 2003 By Dennis C. Miller