

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 Special**
Product code: 0179

	HMIS	NFPA	Key
Health:	2	2	0 = Minimal
Flammability:	2	2	1 = Slight
Reactivity:	1	1	2 = Moderate
Warning:	N/A	N/A	3 = Serious
			4 = Severe

Section II - Hazardous Ingredient

CAS Number	Chemical Component	%	TLV PEL
100-37-8	Diethyl Ethanolamine	>9%	10 ppm-skin
110-91-8	N,N-(diethylethanolamine) Morpholine	>9%	20 ppm-skin

Section III - Physical Data

Solid: Liquid: X	Appearance: Colorless/light yellow amine odor
Specific Gravity: 1.001	Evaporation Rate: Slower than ether
Solubility in water: Complete	Freezing Point: Not Estab.
% Volatiles: 100 %	pH: >11
Vapor Pressure: Not Established	Vapor Density: Heavier than air

Section IV - Fire and Explosive Data

Flash Point: >200°F. (TCC) Flammable Limits LEL~1.4 UEL~11.7

Extinguishing Media: For fires in area use appropriate media : CO2, water fog, universal type foam, dry chemical, alcohol foam.

Special Fire Hazards and Equipment Required: Evacuate area of unprotected personnel. Wear protective clothing. Firefighters should wear NIOSH Approved self-contained breathing apparatus and impervious clothing. Cool fire exposed containers with water spray.

Unusual Fire Explosion Hazards: Low solubility in water may cause danger of a floating fire. Concentrated vapors can be ignited by high intensity heat source. May produce hazardous fumes or hazardous decomposition products.

Section V - Reactive Hazards

Product Stable: No Yes X
Hazardous Polymerization: will not occur

Conditions to avoid: Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. To dilute: Add product slowly to lukewarm water; not water to product. Avoid elevated temperatures.

Incompatibility: Strong acids and oxidizing agents, metals such as Aluminum, zinc, tin, etc. Halogenated Hydrocarbons. Halogens or halogen compounds. Organic material. Do not mix this product with nitrites or nitrosating agents because a nitrosamine may be formed. Nitrosamine may cause cancer.

Hazardous Decomposition Products: Thermal decomposition may produce CO, CO₂, unidentifiable organic materials. Ammonia. Formaldehyde. Nitrogen Oxides.

Section VI - Health Hazards

Eyes: Severe Irritation, Causes severe burns and destruction of tissue. Small quantities can result in permanent damage and loss of vision. Contact may cause blindness. Exposure to the vapor may cause transient edema of the corneal epithelium. This condition, known as "glaucomata", "blue haze", or "blue-gray haze" produces a blurring of vision against a general bluish haze and the appearance of halos around bright objects. This condition will disappear spontaneously within a few hours of the exposure and leave no sequelae. Although not detrimental to the eyes, skilled tasks such as driving a motorized vehicle should not be undertaken.

Skin: Corrosive. May cause irritating and severe burns to the skin.

Ingestion: Corrosive Abdominal discomfort. Nausea. Vomiting. Drowsiness. Dizziness. Ingestion can cause very serious damage to the mouth, esophagus, stomach, and other tissues with which contact is made, and may be fatal. Ingestion may cause death.

Inhalation: Headache. Chest pain. Coughing. Difficulty in breathing. Vapors or mist may cause irritation to the throat, mucous membranes and upper respiratory tract. Inhalation of dust or mist can cause damage to the upper respiratory tract and to the lung tissue depending upon the extent of exposure.

Target Organs: Eyes, Skin, Respiratory System, Liver, Kidneys.

Principal Routes of Absorption: Product can affect body if its inhaled, comes in contact with the skin or eyes or is swallowed.

Carcinogen Content: IARC: NO NTP: NO OSHA: NO

This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC or OSHA

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 15 minutes. Hold eyelids open during this flushing with water. Call a physician immediately.

Skin: Immediately flush affected area with plenty of water for at least 15 minutes while removing contaminated clothing. Follow by washing with soap and water. Wash clothing and shoes before reuse. Call a physician. Do not apply oils or ointments unless ordered by the physician.

Ingestion: DO NOT INDUCE VOMITING. If conscious, give a quart of water. Call a physician immediately. If unconscious or in convulsions, take immediately to a hospital or a physician. Never induce vomiting or give anything by mouth to an unconscious victim.

Inhalation: Remove to fresh air. If breathing is labored, administer oxygen if available. Call a physician immediately. If not breathing, resuscitate (artificial respiration, preferably mouth-to -mouth) and **call a physician.**

Section VII - Normal Handling Procedures

Precautions to be taken in Handling and Storage: **CORROSIVE MATERIAL.** Store in cool, dry, secure area, well ventilated area. Keep container tightly closed when not in use. Store away from heat, open flame, sunlight and all sources of ignition. Highly corrosive to most metals with evolution of Hydrogen gas. Store away from incompatible materials. Do not store in unlabeled or mislabeled containers.

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

PROTECTIVE EQUIPMENT

Eyes: Chemical goggles and face shield. Do not wear contact lenses.
Gloves: Consult glove manufacture for the most appropriate glove material.
Other: Eye wash, safety shower, rubber apron, chemical safety shoes.
Protective clothing. Decontaminate clothing before reuse.

Ventilation Requirements: Sufficient to maintain levels below TLV
(Section II) Do not use in unventilated or closed areas. Keep levels below recommended exposure limits. To determine exposure levels, monitoring should be performed regularly. Avoid mist formation. Local ventilation is required at points where vapors or mist are expected to escape to the workplace air.

Respiratory Protection: If recommended exposure limits are exceeded wear: NIOSH-approved respirator. NIOSH-approved self-contained breathing apparatus. Do not exceed limits established by the respirator manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

Section VIII - Spill or Leak Control Procedures

Steps to be taken in case of spill: **CORROSIVE MATERIAL.** Wear protective gear (See Sec VII). Eliminate all sources of ignition. Evacuate unprotected personnel. Maintain adequate ventilation. Contain on absorbent medium and collect in labeled, approved containers for disposal. Avoid direct discharge into sewers or surface waters. Notify authorities if entry occurs.

Waste Disposal Method: Observe all local, state, and federal regulations. Dispose of at approved waste treatment facility. Do not pressurize, cut, weld, braze,solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

Section IX - Special Precautions

Other Precautions: Avoid contact with skin and eyes. Harmful if swallowed or absorbed thru the skin. Causes eye and skin burns. Vapor extremely irritating. May cause allergic skin reactions. Combustible. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapors. Wash thoroughly after handling. Avoid dust or mist formation. Do not eat, drink, or smoke in work area. Store in cool, dry, secure, well ventilated area. Keep container tightly closed when not in use. Store away from heat, open flame, sunlight and all sources of ignition. Wash contaminated clothing before reuse. Product residues may remain on or in "empty" containers. Clean before reusing or alternating container. **DO NOT** use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.

SARA Title III Information

NO.	RQ(LBS) (*1)	TPQ(LBS) (*2)	SEC 313 (*3)	313 CATEGORY (*4)	311/312 CATEGORIES (*5)
P	N/A	N/A	N	N/A	A-C-F
1	N/A	N/A	N	N/A	A-C-F
2	N/A	N/A	N	N/A	A-C-F

*1 = Reportable Quantity Of Cercla Hazardous Substance, 40 Cfr Part 302, Table 302.4

*2 = Threshold Planning Quantity, Extremely Hazardous Substances, Sec 302

*3 = Toxic Chemical, Sec 313

*4 = Category As Required By Sec. 313 (40 Cfr 372.42), Must Be Used On Toxic Release Inventory Form

*5 = Hazard Category For Sara Sec. 311/312 Reporting

A = Immediate (Acute) Health Hazard

C = Delayed (Chronic) Health Hazard

P = Sudden Release Of Pressure Hazard

F = Fire Hazard

R = Reactive Hazard

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: May 1, 2006 By: D.C. Miller