

Industrial Voltreet

SDS Number: 0113

Revision Date: 4/1/2020

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Alliance Group Inc. 262-251-4977
N114 W18621 Clinton Drive
Germantown, WI 53022

Phone: 800-255-3924

Emergency: CHEMTEL

Product Identifier: Industrial Voltreet
SDS Number: 0113
Revision Date: 4/1/2020
Product Use: Water Treatment Compound

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 1
Health, Skin corrosion/irritation, 1 B
Health, Acute toxicity, 3 Dermal
Health, Skin sensitization, 1
Health, Acute toxicity, 4 Oral
Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H318 - Causes serious eye damage
H314 - Causes severe skin burns and eye damage
H311 - Toxic in contact with skin
H317 - May cause an allergic skin reaction
H302+ H332 - Harmful if swallowed or if inhaled
H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340+ P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately contact poison center or doctor
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.



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P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
 P361 - Remove/Take off immediately all contaminated clothing. Wash before reuse
 P403+235 - Store in a well ventilated place. Keep cool.
 P501 - Dispose of contents/container in accordance with local, regional and international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Eyes; Inhalation; Ingestion; Skin.
Target Organs: Respiratory system; Eyes; Skin; Teeth.
Inhalation: Can cause irritation and inflammation of the respiratory tract. Material is destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin Contact: May cause skin burns, irritation, and redness. Toxic if absorbed through skin.
Eye Contact: May cause severe eye burn. May cause permanent eye damage.
Ingestion: Harmful if swallowed.

HMIS III: Health = 3(Chronic), Fire = 1, Physical Hazard = 0

HMIS		
HEALTH	<input checked="" type="checkbox"/>	3
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION	<input type="checkbox"/>	

3 COMPOSITION/INFORMATION OF INGREDIENTS

*Substance/Mixture: Mixture

Chemical Ingredients:		
CAS#	%	Chemical Name:
110-91-8	<5%	Morpholine
100-37-8	<10%	Diethylethanolamine

4 FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. Give oxygen or artificial respiration if needed. Consult a physician
Skin Contact: Promptly flush skin with water for 15 minutes. Remove contaminated clothing immediately. Get immediate medical attention. Do not reuse clothing and shoes until cleaned. Discard leather articles such as shoes and belt. Do not apply oils and ointments unless ordered by a physician.
Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.
Ingestion: Do NOT induce vomiting. Rinse mouth with wate. Seek immediate medical attention. If unconscious, take to a hospital or physician.

5 FIRE FIGHTING MEASURES

Flammability: Not Flammable or Combustible.



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Flash Point: >200 F
Flash Point Method: No data available.
Burning Rate: No data available.
Autoignition Temp: No data available.
LEL: No data available.
UEL: No data available.

Fire Fighting Methods

Evacuate area of unprotected personal. Wear protective clothing including NIOSH Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers and disperse vapors.

Unusual Fire or Explosion Hazards:

Vapors are heavier than air and can settle in low or confined areas. Vapors concentrated in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame, or high intensity source of heat. This material may produce a floating fire hazard in extreme fire conditions.

Extinguishing Media

Suitable: Water spray. Foam. Carbon dioxide. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable fire extinguisher: No data available

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ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate area. Use personal protective. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Never exceed any occupational exposure limit.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

Spill

CORROSIVE MATERIAL. Keep upwind of leak or spill. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

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HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Do not swallow. Wash thoroughly after handling. Do not puncture or drop containers. Do not expose containers to open flame, excessive heat, or direct sunlight. Do not add nitrites or other nitrosating agents; a nitrosamine, which may cause cancer, may be formed.

Storage Requirements: Store in cool/dry area. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation. Maintain adequate ventilation.

Personal Protective Equipment: Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Respiratory



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Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Eyes and Face

Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material.

Skin

Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use.

Protective gloves: gauntlet-type, neoprene, nitrile.

Component	OSHA PEL	ACGIH TWA/ TLV
Morpholine	20 ppm TWA; 70 mg/m ³ TWA (Skin)	20 ppm TWA (Skin)
Diethylethanolamine	2 ppm TWA	10 ppm TWA

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Water white	Odor:	Amine.
Physical State:	Liquid	Molecular Formula:	No data available.
Odor Threshold:	No data available.	Solubility:	Complete.
Particle Size:	No data available.	Softening Point:	No data available.
Spec Grav./Density:	0.996	Percent Volatile:	No data available.
Viscosity:	No data available.	Heat Value:	No data available.
Saturated Vapor Concentration:	No data available.	Freezing/Melting Pt.:	No data available.
Boiling Point:	212-324°F	Flash Point:	No data available.
Flammability:	No data available.	Octanol:	No data available.
Partition Coefficient:	No data available.	Vapor Density:	No data available.
Vapor Pressure:	No data available.	VOC:	Not Available
pH:	11	Bulk Density:	No data available.
Evap. Rate:	No data available.	Auto-Ignition Temp:	No data available.
Molecular weight:	No data available.	UFL/LFL:	No data available.
Decomp Temp:	No data available.		

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STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Avoid contact with sparks, electric arcs, and open flames. Warning: Do not mix this product with nitrites or other nitrosating agents because nitrosamines may be formed. Nitrosamines may cause cancer.
Materials to Avoid:	Strong Oxidizing Agents, acids, Sodium hypochlorites, calcium hypochlorites, nitrates, perchlorates, heat, isocyanates, nitrites. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces. Metals such as aluminum, zinc, tin, etc.
Hazardous Decomposition:	Irritating and/or toxic gases. Carbon oxides, nitrogen oxides, ammonia. Nitrogen oxide can react with water to form corrosive nitric acid.
Hazardous Polymerization:	Will not occur under normal conditions.

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TOXICOLOGICAL INFORMATION

Toxicity Data:

EYE: Causes severe eye irritation and burns. May cause: blurred vision, redness, pain, distortion of vision, ulcerations, tissue



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destruction, permanent eye damage, blindness. Repeated exposure may cause conjunctivitis, corneal clouding.

- » Diethylethanolamine Eyes - Rabbit - severe eye irritation
- » Morpholine Eyes - Rabbit - severe eye irritation

DERMAL: Causes severe irritation and burns. Causes inflammation, local redness, swelling, discomfort, pain. Contact may cause permanent skin damage, ulceration, sensitization, blistering, dermatitis.

- » Diethylethanolamine Dermal LD50 - rabbit - 1113mg/kg
- » Morpholine Dermal LD50 - rabbit - 500 mg/kg *Skin corrosion/irritation: rabbit - severe irritation - 24H

INHALATION: May be harmful if inhaled. Vapors and mists may damage: mucous membrane and upper respiratory tract. Vapors or mists may cause: coughing, sore throat, shortness of breath, labored breathing, chest pain, headache, nausea, vomiting, dizziness, drowsiness. Effects may be delayed. Prolonged or repeated contact may cause: sensitization, damage to lungs, kidneys, liver.

- » Diethylethanolamine Inhalation LC50 - mouse - 5000 mg/m³
- » Morpholine Inhalation LC50 - rat - 8000ppm - 8H

ORAL: Causes severe irritation and burns. May cause damage to the: mouth, throat, esophagus, stomach, gastrointestinal tract. May cause: pain, vomiting, diarrhea, bleeding, labored breathing, burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection, and death. Effects may be delayed. Aspiration into the lungs may cause chemical pneumonia and lung damage.

- » Diethylethanolamine Oral LD50 - rat - 1300 mg/kg
- » Morpholine Oral LD50 - rat - 1450 mg/kg

Chronic Effects: No data available.

Carcinogenicity: Morpholine.

IRAC: 3- Group 3: Not classifiable as to its carcinogenicity to humans.

Mouse- oral: tumorigenic- neoplastic by RTECS criteria. Lungs, thorax, or respiration: bronchiogenic carcinoma. Liver: tumors.

Mutagenicity: Morpholine

Mouse- lymphocyte- morphological transformation
Hamster - ovary- sister chromatid exchange

Teratogenicity: No data available.

Fertility Effects: No data available.

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ECOLOGICAL INFORMATION

Biodegradability No data available.

Ecotoxicity Toxicity to fish:

LC50- *Leuciscus idus* (Golden orfe) - 100-220 mg/L- 96 hr (Diethylethanolamine)

LC50- *Oncorhynchus mykiss* (Rainbow trout) - 180-380 mg/L- 96 hr (Morpholine)

Toxicity to aquatic invertebrates:

EC50- *Daphnia magna* (Water flea) - 83.6 mg/L- 48 hr (Diethylethanolamine)

EC50- *Daphnia magna* (Water flea) - 80 mg/L- 48 hr (Morpholine)

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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13**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied.

RCRA: This material is not listed as a hazardous waste if and when it is discarded.

NOTE: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

14**TRANSPORT INFORMATION**

UN3267, Corrosive liquid, basic, organic, n.o.s., 8, PGII, (Diethylethanolamine, Morpholine)

DOT Proper Shipping Name: Corrosive liquid, basic, organic, nos

DOT Technical Name: Diethylethanolamine, Morpholine

DOT Hazard Class: 8

DOT UN/NA Number: UN3267

Packing Group: II

Resp. Guide Page: 153

Reportable Quantity (RQ): N/A

**15****REGULATORY INFORMATION**

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are listed as "Active" on the Toxic Substances Control Act (TSCA) 8 (b) Inventory.

CERCLA / SARA Emergency Reporting: A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from federal requirements.

» **No components require reporting**

SARA Title III Section 313: This product does not require reporting.

Clean Water Act (CWA): The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA. **No components listed.**

STATE REGULATIONS

California- The following components are listed under Prop 65: None.

Massachusetts - RTK Substances: The following components are listed: Diethylethanolamine (CAS# 100-37-8), Morpholine



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(CAS# 110-91-8)

New Jersey - RTK Substances: The following components are listed: Diethylethanolamine (CAS# 100-37-8), Morpholine (CAS# 110-91-8)

Pennsylvania - RTK Substances: The following components are listed: Diethylethanolamine (CAS# 100-37-8), Morpholine (CAS# 110-91-8)

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OTHER INFORMATION

Prepared By: P May

Reason For Revision: Updated GHS & Regulatory Information

Disclaimer:

This information is given in good faith and based on our current knowledge of the product. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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