

# Voltreet Preferred

SDS Number: 0110

Revision Date: 4/30/2020

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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: Voltreet Preferred  
SDS Number: 0110  
Revision Date: 4/30/2020  
Product Use: Water Treatment Compound

## 2 HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

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

Physical, Flammable Liquids, 3  
Health, Acute toxicity, 3 Oral  
Health, Acute toxicity, 3 Dermal  
Health, Skin corrosion/irritation, 1 B  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Reproductive toxicity, 2

### GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

#### GHS Hazard Pictograms:



#### GHS Hazard Statements:

H226 - Flammable liquid and vapor  
H301 - Toxic if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H361 - Suspected of damaging fertility or the unborn child

#### GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/light/equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call Poison Center or doctor  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
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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- P310 - Immediately call a POISON CENTER or doctor/physician.
- P363 - Wash contaminated clothing before reuse.
- P370+378 - In case of fire: Use dry chemical for extinction.
- P403+235 - Store in a well ventilated place. Keep cool.
- P405 - Store in a secure manner
- 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.
- Skin Contact:** May cause skin burns. Toxic if absorbed through skin.
- Eye Contact:** May cause severe eye irritation and burns. May cause permanent eye damage.
- Ingestion:** Harmful if swallowed. Causes severe irritation and burns.

HMIS III: Health = 3(Chronic), Fire = 2, Physical Hazard = 0

HMIS		
HEALTH	<input checked="" type="checkbox"/>	3
FLAMMABILITY		2
PHYSICAL HAZARD		0
PERSONAL PROTECTION	<input type="checkbox"/>	

## 3 COMPOSITION/INFORMATION OF INGREDIENTS

Substance/Mixture: Mixture

Chemical Ingredients:		
CAS#	%	Chemical Name:
108-91-8	<10%	Cyclohexanamine
110-91-8	<5%	Morpholine

## 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. Do not reuse clothing and shoes until cleaned. Wash off with soap. Consult a physician.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Consult a physician. Continue rinsing eyes during transport to hospital.
- Ingestion:** If swallowed: If fully conscious, drink a quart of water. Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips.

### Protection of First Aid Personnel:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that dust, vapor, or gas are still present, the rescuer should wear an appropriate mask or self-contained



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breathing apparatus.

## 5 FIRE FIGHTING MEASURES

<b>Flash Point:</b>	125°F
<b>Flash Point Method:</b>	tag closed cup
<b>Autoignition Temp:</b>	560 °F (Cyclohexylamine) 590°F (Morpholine)

### 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:

COMBUSTIBLE LIQUID. 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 can occur at concentrations ranging between the lower and upper limits listed above. This material may produce a floating fire hazard in extreme fire conditions.

### Extinguishing Media

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

**Unsuitable fire extinguisher:** Alcohol foam and water spray may be ineffective but can be used to cool fire exposed structures and vessels.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Use personal protective equipment. Eliminate all sources of ignition. 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

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. Use non-sparking tools and equipment.

## 7 HANDLING AND STORAGE

### Handling Precautions:

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not puncture or drop containers. Do not expose containers to open flame, excessive heat, or direct sunlight. Take precautionary measures against static discharges. Use non-sparking tools and equipment. Do not add nitrites or other nitrosating agents. A nitrosamine, which may cause cancer, may be formed.

### Storage Requirements:

CORROSIVE MATERIAL. Store in cool/dry area. Keep away from sunlight, heat, sparks, and flames. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Store in original containers. Static electricity may accumulate and create a fire



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hazard. Ground fixed equipment.

**8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Engineering Controls:</b>	Provide local exhaust ventilation. Maintain adequate ventilation. Do not use in closed or confined spaces.
<b>Personal Protective Equipment:</b>	<p>Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p> <p>Respiratory 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.</p> <p>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.</p> <p>Skin Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use. Protective gloves: gauntlet-type, neoprene, nitrile.</p>

<b>Component</b>	<b>OSHA PEL</b>	<b>ACGIH TWA/ TLV</b>
<b>Morpholine</b>	20 ppm TWA	20 ppm TWA (Skin)
<b>Cyclohexylamine</b>	10 ppm TWA	10 ppm TWA

**9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Colorless to light yellow	<b>Odor:</b>	Amine.
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	No data available
<b>Odor Threshold:</b>	No data available.	<b>Solubility:</b>	Dispersible
<b>Particle Size:</b>	No data available	<b>Softening Point:</b>	No data available
<b>Spec Grav./Density:</b>	.994 @ 20 C	<b>Percent Volatile:</b>	No data available.
<b>Viscosity:</b>	No data available.	<b>Heat Value:</b>	No data available
<b>Saturated Vapor Concentration:</b>	No data available	<b>Freezing/Melting Pt.:</b>	No data available.
<b>Boiling Point:</b>	212 -274 °F	<b>Flash Point:</b>	128 °F
<b>Flammability:</b>	No data available.	<b>Octanol:</b>	No data available
<b>Partition Coefficient:</b>	No data available	<b>Vapor Density:</b>	No data available.
<b>Vapor Pressure:</b>	No data available.	<b>VOC:</b>	0.07 lbs/gal
<b>pH:</b>	12.3	<b>Bulk Density:</b>	No data available
<b>Evap. Rate:</b>	No data available.	<b>Auto-Ignition Temp:</b>	No data available.
<b>Molecular weight:</b>	No data available	<b>UFL/LFL:</b>	No data available
<b>Decomp Temp:</b>	No data available.		

Lower Explosion Limits: 1.5%  
Upper Explosion Limits: 10.8%

**10****STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Warning: Do not mix this product with nitrites or other nitrosating agents because nitrosamines may be formed. Nitrosamines may cause cancer.
<b>Materials to Avoid:</b>	Strong Oxidizing Agents. Acids. Mineral acids. Sodium Hypochlorite. Calcium hypochlorite. Concentrated



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product may slowly corrode copper, aluminum, zinc, and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possible creating explosive reaction. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

**Hazardous Decomposition:**

Thermal decomposition may release: Irritating and/or toxic gases. Carbon monoxide. Nitrogen oxides.

**Hazardous Polymerization:**

Will not occur under normal conditions.

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**TOXICOLOGICAL INFORMATION****Toxicity Data:**

**Eye Effects:** Causes severe eye irritation and burns. Liquid, aerosols, and vapors of this product may cause: blurred vision, redness, pain, blindness, corneal edema, optical halos, and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. If not removed promptly, will injure eye tissue, which may result in permanent damage. Exposure to the vapor may cause minor transient edema of the corneal epithelium. Repeated exposure may cause conjunctivitis, corneal clouding, cataracts, or retinal atrophy.

- » Cyclohexylamine - Eyes - Rabbit - severe eye irritation - 24h
- » Morpholine - Eyes - Rabbit - severe eye irritation

**Skin Effects:** Causes severe irritation and burns. Concentrated solutions may cause: burns, necrosis, permanent skin damage, tissue destruction, sensitization. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin.

- » Cyclohexylamine - Dermal LD50 - Rabbit - 277 mg/kg  
Skin corrosion/irritation - Rabbit - severe skin irritation - 24H
- » Morpholine - Dermal LD50 - Rabbit - 500 mg/kg  
Skin corrosion/irritation - Rabbit - severe skin irritation - 24H

**Inhalation Effects:** Cause severe irritation and burns. Vapors and mists may damage: mucous membranes, respiratory tract. Vapors or mists may cause: coughing, sore throat, olfactory fatigue, shortness of breath, labored breathing, choking, bronchospasms, lightheadedness, drowsiness, anxiety, pulmonary edema. Symptoms of pulmonary edema may be delayed. Prolonged or repeated overexposure may cause damage to respiratory tract; may cause damage to the lungs, kidneys, liver.

- » Cyclohexylamine - LC50 - Mouse - 7500 mg/m<sup>3</sup>
- » Morpholine - LC50 - Rat - 8000 ppm - 8H

**Ingestion Effects:** 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.

- » Cyclohexylamine - Oral LD50 - Rat - 300 mg/kg
- » Morpholine - Oral LD50 - Rat - 1450 mg/kg

**Teratogenicity:** No data available.

**Fertility Effects:** No data available.

**Mutagenicity: (Morpholine):** Mouse - lymphocyte - morphological transformation  
Hamster - ovary - sister chromatid exchange

**Carcinogenicity: (Morpholine)**

**IARC: 3 - Group 3: not classifiable as to its carcinogenicity to humans**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA.



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## 12 ECOLOGICAL INFORMATION

Biodegradability - No Data Available

### ECOTOXICITY

#### Toxicity to fish

LC50 - *Leuciscus idus* (Golden orfe) - 44 mg/l - 96 H (Cyclohexylamine)LC50 - *Oncorhynchus mykiss* (rainbow trout) - 180 - 380 mg/l - 96 H (Morpholine)

#### Toxicity to daphnia and other aquatic invertebrates

EC50 - *Daphnia magna* (Water flea) - 49 mg/l - 24 H (Cyclohexylamine)EC50 - *Daphnia magna* (Water flea) - 100 mg/l - 24 H (Morpholine)

Persistence and degradability: Biodegradability

Bioaccumulative potential: no data available

Mobility in soil: no data available

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

## 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. DO NOT pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

RCRA: Hazardous Waste Number = D002

## 14 TRANSPORT INFORMATION

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

NOTE: This material is not classified as flammable liquid per 49 CFR 173.120



## 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 "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



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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**

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**

RCRA: The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes.

» **No components listed**

## STATE REGULATIONS

**California- Proposition 65:** This product does not contain any chemicals known to the State of California to cause cancer and/or reproductive harm

**Massachusetts - RTK Substances:** The following components are listed: Cyclohexylamine (CAS# 108-91-8), Morphonline (CAS# 110-91-8)

**New Jersey - RTK Substances:** The following components are listed: Cyclohexylamine (CAS# 108-91-8), Morphonline (CAS# 110-91-8)

**Pennsylvania - RTK Substances:** The following components are listed: Cyclohexylamine (CAS# 108-91-8), Morphonline (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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