

**MATERIAL SAFETY DATA SHEET**  
**Emergency Telephone (262) 251-4977**

**1. PRODUCT AND COMPANY IDENTIFICATION**

Name: **Alliance Group, Inc.** Address: N114 W18621 Clinton Drive  
City: Germantown State: Wisconsin Zip Code: 53022  
Product name: **SPECTRUM CWT-0125**  
Product code: **0125**

**Date Revised: 06-23-2005**

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** DANGER! CORROSIVE. Causes severe burns to eyes, skin, and respiratory tract. Harmful if inhaled. Harmful or fatal if swallowed. Aspiration may cause lung damage.

**Physical State** Liquid.  
**Color:** Light amber.  
**Odor:** Mild odor.

**POTENTIAL HEALTH EFFECTS**

**Routes Of Exposure:** Eyes. Ingestion. Inhalation. Skin. **Target Organs:** Eyes. Respiratory System. Skin. Teeth.

**Eye Contact:** CORROSIVE-Causes severe irritation and burns. May cause: blurred vision. redness. pain. ulcerations. tissue destruction. permanent eye damage. blindness. Prolonged or repeated contact may cause: irritation. conjunctivitis.

**Skin Contact:** CORROSIVE-Causes severe irritation and burns. Concentrated solutions may cause: severe burns. severe necrosis. permanent skin damage. Prolonged or repeated exposure may cause: drying. redness. itching. pain. inflammation. cracking. possible secondary infection with tissue damage.

**Skin Absorption:** No data available.

**Inhalation:** CORROSIVE-Causes severe irritation and burns. Vapors or mists may damage: mucous membranes. respiratory tract. Vapors or mists may cause: coughing. labored breathing. bronchospasms. chemical pneumonitis. pulmonary edema. death. Effects may be delayed. Chronic exposure may cause: dental erosions. discoloration of teeth. bronchitis. bronchial emphysema.

**Ingestion:** CORROSIVE-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. death. Effects may be delayed. Aspiration into the lungs may cause chemical pneumonia and lung damage.

**Medical Conditions Aggravated By Exposure To Product:** Eye disorders. Skin disorders. Respiratory system disorders.

**Other:** Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow skin contact or ingestion. Circulatory shock is often the immediate cause of death.

**Cancer Information:** This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC, or OSHA. The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen (IARC Category 1). This classification is for inorganic acid mists only and does not apply to sulfuric acid or sulfuric acid solutions. The National Toxicology Program (NTP) lists "strong inorganic acid mists containing sulfuric acid" as a known human

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carcinogen. This limits the classification to sulfuric acid aerosols and does not extend to the liquid product, unless the acid is used under conditions that result in the formation of mists or aerosols. The American Conference of Governmental Industrial Hygienists (ACGIH) lists "sulfuric acid contained in strong inorganic acid mists" as an A2 - Suspected Human Carcinogen.

**Potential Environmental Effects:** See Section 12.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	OSHA Hazard	%by Wt
Sulfuric Acid	7664-93-9	YES	<10%
1-Hydroxyethylidene-1, 1-diphosphonic Acid	2809-21-4	YES	<5%
Zinc Nitrate	7779-88-6	YES	<4%
Polymer/Solids	151006-66-5	YES	<5%

### 4. FIRST-AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

**Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. Discard contaminated leather articles such as shoes and belt. Do not apply oils or ointments unless ordered by the physician.

**Inhalation:** Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

**Ingestion:** If fully conscious, drink a quart of water. DO NOT induce vomiting. 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. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Note to Physicians:** This product contains materials that may cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial resuscitation and appropriate chemotherapy if respiration is depressed. Following exposure the patient should be kept under medical review for at least 48 hours as delayed pneumonitis may occur. DO NOT attempt to neutralize the acid with weak bases since the reaction will produce heat that may extend the corrosive injury.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Carbon dioxide. Dry chemical. Foam. Water spray.

**Fire Fighting Methods:** Evacuate area of unprotected personnel. 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. Do not get water inside containers. Product generates heat upon addition of water, with possible spattering. Neutralize run-off with Lime, Soda Ash, etc., to prevent corrosion of metals and formation of Hydrogen gas. Run-off from fire control may cause pollution.

**Fire And Explosion Hazards:** Product may react with some metals (ex.: Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas. Will react with organic materials with evolution of heat and sulfur dioxide. Concentrated acid is a strong oxidizing agent. May cause ignition of combustible materials on contact with generation of sulfur

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dioxide fumes.

**Hazardous Combustion Products:** Sulfur oxides. Nitrogen oxides. Irritating and/or toxic gases.

## 6. ACCIDENTAL RELEASE MEASURES

**Spill Clean-Up Procedures:** CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Flush remaining area with water and neutralize with Soda Ash or Lime and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCE OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

**Storage:** CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze. Highly corrosive to most metals with evolution of hydrogen gas. Explosive/flammable concentrations of hydrogen gas may accumulate inside metal containers. Elevated temperatures will increase the corrosion rate of most metals. Store in a vented container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: Component	OSHA PEL	OSHA STEL/C	ACGIH TWA	ACGIH STEL/C
Sulfuric Acid	1 mg/m <sup>3</sup>	Not Estab.	0.2 mg/m <sup>3</sup> *	Not Estab.
1-Hydroxyethylidene-1, 1-diphosphonic Acid	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Zinc Nitrate	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Polymer/Solids	Not Estab.	Not Estab.	Not Estab.	Not Estab.

**Note:** \* Thoracic fraction.

**Engineering Controls:** Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid overexposure. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

**Eye/Face Protection:** Wear chemical safety goggles and a full face shield while handling this product. Do not wear contact lenses.

**Skin Protection:** Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Acid-proof. Gauntlet-type. Impervious.

**Respiratory Protection:** Respiratory protection must be worn when handling this product. If exposure limits are exceeded, wear: NIOSH-Approved air-purifying respirator with: Acid gas cartridge and Dust/mist filter. NIOSH-

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Approved positive pressure supplied air respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

**Other Protective Equipment:** Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes. Rubber boots. Protective clothing. Full-rubber acid suit.

**General Hygiene Conditions:** Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid.

**Color:** Light amber.

**Odor:** Mild odor.

**Boiling Point (deg. F):** N.D.

**Freezing Point (deg. F):** N.D.

**Melting Point (deg. F):** N.D.

**Vapor Pressure (mm Hg):** N.D.

**Vapor Density (air=1):** N.D.

**Solubility in Water:** Appreciable

**pH:** < 1

**Specific Gravity:** 1.04 @ 25 Deg. C %

**Volatile (wt%):** N.D.

**Evaporation Rate (nBuAc = 1):** N.D.

**VOC (wt%):** N.D.

**VOC (lbs/gal):** N.D.

**Viscosity:** N.D.

**Flash Point:** N.A.

**Lower Explosion Limit:** N.A.

**Upper Explosion Limit:** N.A.

**Autoignition Temperature:** No Data

### 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions To Avoid:** None known.

**Incompatible Materials:** Metals. Water. Alkalies. Strong oxidizing agents. Reducing agents. Carbonates. Cyanides. Sulfides. Carbides. Chlorates. Fulminates. Nitrates. Powdered metals. Organic materials. Combustible materials. Nitrogen compounds. Picrates. Bases. Halogens. Alkali metals. and many other reactive substances.

**Hazardous Decomposition Products:** Sulfur oxides. Sulfuric acid vapors. Hydrogen gas. Nitrogen oxides. Carbon monoxide. Carbon dioxide. Hydrocarbons. Acrylate monomers. Irritating vapors.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur under normal conditions. Contact with organic materials may cause fire and explosions. Contact with water may cause violent reaction with evolution of heat. To dilute: Add product slowly to lukewarm water; not water to product. May react with certain metals to produce flammable hydrogen gas. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides, carbides, etc.

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## 11. TOXICOLOGICAL INFORMATION

**LD50 Oral:** No Data      **LD50 Skin:** No Data      **LC50 Inhalation:** No Data

For detailed toxicological information on individual chemical components contained in this product, contact the address in Section 1 of this MSDS.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** Extensive data on individual chemicals, call for information.

**Chemical Fate Information:** Extensive data on individual chemicals, call for information.

## 13. DISPOSAL CONSIDERATIONS

**Hazardous Waste Number:** D002

**Disposal Method:** Dispose of in a permitted hazardous waste management facility following all 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.

## 14. TRANSPORTATION INFORMATION

**DOT (Department of Transportation):**

**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS SULFURIC ACID)

**Hazard Class:** 8

**Identification Number:** UN3264

**Packing Group:** II

**Label Required:** CORROSIVE

**Reportable Quantity (RQ):** 1000# (Sulfuric Acid)

## 15. REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

**TSCA Inventory Status:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**SARA Title III Section 311/312 Category:**

**Immediate (Acute) Health Hazard:** Y

**Delayed (Chronic) Health Hazard:** Y

**Fire Hazard:** N

**Sudden Release Of Pressure Hazard:** N

**Reactive Hazard:** N

**SARA Section 302/304/313/HAP:**

Component	CERCLA RQ	SARA RQ	SARA TPQ	SARA 313	U.S. HAP
Sulfuric Acid	1000	1000	1000	YES*	NO
1-Hydroxyethylidene-1, 1-diphosphonic Acid	N.A.	N.A.	N.A.	NO	NO

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Zinc Nitrate	1000	N.A.	N.A.	YES*	NO
Polymer/Solids	N.A.	N.A.	N.A.	NO	NO

**Note:** \* Sulfuric acid appears on the Section 313 List. However, the listing only applies to the aerosol forms of sulfuric acid. \* Reportable as zinc compounds.

## U.S. STATE REGULATIONS

**California - The following components are listed under Proposition 65:**

Arsenic (< 0.07 ppm)  
Nickel (< 0.07 ppm)  
Mercury (< 0.04 ppm)  
Lead (< 2 ppm)

**Wisconsin - The following components are listed as a Wisconsin HAP:**

Sulfuric Acid.

## 16. ADDITIONAL INFORMATION

### Hydrite Rating System

Health: 3\*  
Flammability: 0  
Reactivity: 0

\* = Chronic Health Hazard

### NFPA Rating System

Health: 3  
Flammability: 0  
Reactivity: 0

Special Hazard: None

### MSDS Abbreviations

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling Limit

N.E./Not Estab. = Not Established

MSDS Prepared by: DCM

**Reason for Revision:** Product formulation change. New format. Changes made throughout the MSDS.

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The data in this Material Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which ALLIANCE GROUP, INC. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.