SAFETY DATA SHEET

CHEMICAL DISTRIBUTION SOLUTIONS

SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: OXALIC ACID
Control Number: 00208
Product Description: Organic Acid

COMPANY IDENTIFICATION

Supplier: **Chemical Distribution Solutions**
1125 Oak St. Ste. 303
Conway, AR 72032

24 Hour Emergency Telephone: (800) 424-9300 CHEMTREC
General Information: (501) 978-1111

SECTION 2· HAZARDS IDENTIFICATION

GHS Classification:

[Health] **[Environmental]** **[Physical]**

Acute toxicity, Oral Category 4
Acute toxicity, Dermal Category 4
Serious eye damage Category

\ GHS Label elements, including precautionary statements

Pictograms

Signal Word: Danger

Hazard statement(s)
H302 + H312 Harmful if swallowed or in contact with skin
H318 Causes serious eye damage.
Precautionary statement(s)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330 Rinse mouth.
P363 Wash contaminated clothing before reuse.

SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Oxalic Acid	144-62-7	100

SECTION 4 · FIRST AID MEASURES

FIRST AID PROCEDURES:
Eyes: Flush with large amounts of cool running water for at least 15 minutes. Seek medical attention.
Skin: Wash skin with soap and water. If irritation develops and persists seek medical attention.
Inhalation: For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

SECTION 5 · FIRE FIGHTING MEASURES

Suitable Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous combustion products: Oxides of carbon and various hydrocarbons
Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Unusual Fire and Explosion Hazards: None known or expected.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.
Large Spill: Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, waterways or the environment; dike if needed. Eliminate all ignition sources. Neutralize the residue with a dilute solution of sodium carbonate.

SECTION 7 · STORAGE AND HANDLING

Handling: Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Keep in a dry place. Store in a cool, dry, well-ventilated area.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

Exposure Limits: Oxalic Acid 1 mg/m3 ACGIH 1 mg/m3 OSHA

Personal Protective Equipment (PPE):
Eyes: Eye Protection when pouring. Goggles or full-face shield are recommended.
Skin: Wear neoprene gloves, apron, and/or clothing. Viton gloves are recommended.
Clothing: Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other protective items.
Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.
Other Equipment: Eye wash station and shower in close proximity to use are advised.

SECTION 9· PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: No available data
Autoignition Temperature: No available data
Boiling Point: 315 ^{O}F
Melting Point/Freezing Point: 373 ^{O}F (decomposition)
pH: 1.3 at 9 g/l
Solubility in Water: 108 g/l
Odor/Appearance: White odorless crystalline powder.
Flammability Limits: No available data
Specific Gravity: 1.90
Volatile %: No available data
Evaporation Rate (BuAc=1): No available data
Vapor Density (Air-1): 4.2
Vapor Pressure: < 0.1 mmHg

SECTION 10 · STABILITY AND REACTIVITY

Stability: Stable under normal use conditions.
Conditions to Avoid: Excess heat, incompatible materials, dust generation.
Incompatibility: Reactive with oxidizing agents, metals, alkalis.
Hazardous Decomposition Products: Oxides of Carbon.
Hazardous Polymerization: Will not occur.

SECTION 11 · TOXILOGICAL INFORMATION

Signs and Symptoms of Overexposure:
Eye Contact: Eye contact can result in corneal damage or blindness. Inflammation of the eye is characterized by redness, watering, and itching.
Skin Contact: Skin contact can produce inflammation and blistering. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Inhalation: Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing.
Ingestion:. Harmful if swallowed. Causes severe digestive tract irritation and possible burns.

Acute oral toxicity:
LD50 rat: 1,080 mg/kg
Acute inhalation toxicity:
LC50 rat: No available data
Acute dermal toxicity:
LD50 Rabbit: 20,000 mg/kg

SECTION 12 · ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxicity to fish static test LC50 - Leuciscus idus melanotus - 160 mg/l - 48 h
Bio-accumulative potential: Readily biodegradable.
Mobility: No published data

SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 · TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Corrosive Solid, Acidic, Organic, n.o.s. (Oxalic Acid)
Hazard Class: 8
UN/NA: 3261
Packaging Group: 3

SECTION 15 · REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)
This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material has not been established.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:
Acute Health Hazard, Chronic Health Hazard

SARA Section 313 (40 CFR 372) Hazard Categories:
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA.

Clean Air Act: None of the chemicals in this product are listed as Hazardous Substances under the CAA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 · OTHER INFORMATION

MSDS Creation Date: December 2014

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 3
Flammability: 1
Reactivity: 0

The data in this 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 Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.