

SAFETY DATA SHEET

MOMENTUM ZINC

Product ID: MC213500

Revised: 03-05-2018, SDS0615.02

Replaces: 01-22-2018, SDS0615.01

1. IDENTIFICATION

Product Identifier: MOMENTUM ZINC
Other Identifiers: R35313A
CAS Number: MIXTURE
Recommended Use: For use in fertilizer applications.
Restrictions on Use: No data available.



Source to Source
3233 South I Street
Tulare, CA 93274
(866) 727-4572

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: (866) 727-4572
CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION

GHS Classification(s): Serious Eye Damage/Eye Irritation Category 1
Skin Corrosion/Irritation Category 2

GHS Label Elements:

GHS Hazard Symbols:



Signal Word: Danger

Hazard Statements: Causes skin irritation.
Causes serious eye damage.

Precautionary Statements:

Prevention: Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see First Aid on SDS or on this label).
If skin irritation occurs: Get medical advice or attention.
Take off contaminated clothing and wash before reuse.

Hazards Not Otherwise Classified: None known.

Percentage of Components with Unknown Acute Toxicity:

Dermal: 30.1 %
Inhalation Vapor: 30.1 %
Inhalation Dust/Mist: 36.7 %

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures:

<u>Chemical or Common Name/Synonyms</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Sulfuric acid, zinc salt (1:1)	7733-02-0	< 25 %

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Citric Acid	77-92-9	< 15 %
Malic Acid	6915-15-7	< 10 %
Gluconic Acid	526-95-4	< 8 %

Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

4. FIRST-AID MEASURES

Description of Necessary Measures:

Eye Contact: If in eyes: 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: If on skin: 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. Wash with soap and water.

Inhalation: If inhaled: 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 swallowed: 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.

Most Important Symptoms/Effects, Acute and Delayed:

Eye Contact: Causes severe irritation. May cause: tearing. blurred vision. burns. burning sensation. redness. May cause eye damage.

Skin Contact: May cause moderate irritation. Prolonged and repeated exposure may cause: drying. cracking. itching. redness. burning sensation. severe irritation. burns.

Skin Absorption: No absorption hazard expected under normal use.

Inhalation: Causes moderate irritation. May irritate: nose. throat. upper respiratory tract. Irritation may be severe. May cause: difficulty breathing. low blood pressure. dizziness. bluish skin color. lung congestion. Chronic exposure may cause: digestive disorders. reflex bronchoconstriction.

Ingestion: May cause severe irritation. May cause: burns. abdominal pain. gastrointestinal disturbances. fever. nausea. vomiting. diarrhea. blood in stool. inability to urinate. low blood pressure. convulsions. May cause damage to the: kidneys. liver. Erosion of teeth is possible.

Indication of Immediate Medical Attention and Special Treatment Needed: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: For fires in area use appropriate media. For example: Dry chemical. Carbon dioxide. Foam. Water spray.

Specific Hazards Arising from the Chemical:

Fire and Explosion Hazards: None known. This product may react with certain metals to produce flammable Hydrogen Gas.

Hazardous Combustion Products: Zinc oxides. Sulfur oxides. Carbon dioxide. Carbon monoxide. Irritating and highly toxic gases.

Special Protective Equipment and Precautions for Fire-Fighters: 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 and disperse vapors. Run-off from fire control may cause pollution.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures: Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit.

Methods and Materials for Containment and Clean Up: Contain spill, place into drums for proper disposal. Soak up residue with inert absorbent material. Place in non-leaking containers for immediate 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

Precautions for Safe 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.

Conditions for Safe Storage, Including any Incompatibilities: 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. Use corrosion-resistant acid containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
No components found.	

ACGIH Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
No components found.	

Engineering Controls: General room ventilation is required. Provide local exhaust or process enclosure ventilation. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist.

Individual Protection Measures:

Eye/Face Protection: Wear chemical safety goggles while handling this product. Wear additional eye protection such as chemical safety goggles when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Chemical-resistant. Acid-proof.

Respiratory Protection: Respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If dust or mist is present, wear: NIOSH-Approved respirator for dusts and mists. NIOSH-Approved air-purifying respirator with: HEPA filter. 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. Protective clothing. Rubber apron. Chemical safety shoes. Rubber boots.

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: Dark brown/orange.
Odor: Mild odor.
Odor Threshold: N.D.
pH: 1 (as is)
Freezing Point (deg. F): N.D.
Melting Point (deg. F): N.D.
Initial Boiling Point or Boiling Range: N.A.
Flash Point: N.A.
Flash Point Method: N.A.
Evaporation Rate (nBuAc = 1): N.D.
Flammability (solid, gas): N.D.
Lower Explosion Limit: N.A.
Upper Explosion Limit: N.A.
Vapor Pressure (mm Hg): N.D.
Vapor Density (air=1): N.D.
Specific Gravity or Relative Density: 1.27 @ 25 Deg. C
Solubility in Water: Complete
Partition Coefficient (n-octanol/water): N.D.
Autoignition Temperature: No Data
Decomposition Temperature: N.D.
Viscosity: N.D.
% Volatile (wt%): N.D.
VOC (wt%): N.D.
VOC (lbs/gal): N.D.
Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid: Avoid excessive heat. Avoid elevated temperatures.

Incompatible Materials: Strong oxidizing agents. Alkalies. Bases. Sulfides. Carbonates. Acetates. Potassium Tartrate. Metal Nitrates. Reducing agents. Bicarbonates. Amines. Alkali metals. Copper, aluminum, zinc and their alloys. Lead. Oxides of sulfur. Fiber-reinforced Polyester. Steel. Brass. Cast Iron. Reactive Metals. Oxidizing agents. Strong bases. Iron. Metals.

Hazardous Decomposition Products: Zinc oxides. Sulfur oxides. Carbon dioxide. Carbon monoxide. Maleic acid. Maleic anhydride. May react with certain metals to produce flammable hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.

Symptoms/Effects: Acute, Delayed and Chronic:

Eye Contact: Causes severe irritation. May cause: tearing. blurred vision. burns. burning sensation. redness. May cause eye damage.

Skin Contact: May cause moderate irritation. Prolonged and repeated exposure may cause: drying. cracking. itching. redness. burning sensation. severe irritation. burns.

Skin Absorption: No absorption hazard expected under normal use.

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Inhalation: Causes moderate irritation. May irritate: nose, throat, upper respiratory tract. Irritation may be severe. May cause: difficulty breathing, low blood pressure, dizziness, bluish skin color, lung congestion. Chronic exposure may cause: digestive disorders, reflex bronchoconstriction.

Ingestion: May cause severe irritation. May cause: burns, abdominal pain, gastrointestinal disturbances, fever, nausea, vomiting, diarrhea, blood in stool, inability to urinate, low blood pressure, convulsions. May cause damage to the: kidneys, liver. Erosion of teeth is possible.

Numerical Measures of Toxicity:

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Sulfuric acid, zinc salt (1:1)	Rat: 1710 mg/kg	No Data	No Data
Citric Acid	Rat: 3000 mg/kg	Rat: > 2000 mg/kg	No Data
Malic Acid	Mouse: 1600 mg/kg	No Data	No Data
Gluconic Acid	Rat: 7630 mg/kg	No Data	No Data

Acute Toxicity Estimate (ATE):

Oral: 2111 mg/kg

Cancer Information:

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

Medical Conditions Aggravated by Exposure to Product: Eye disorders, Respiratory system disorders, Skin disorders.

Other: None known.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available.

Chemical Fate Information: No data available.

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. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. 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. TRANSPORT INFORMATION

DOT (Department of Transportation):

Identification Number: UN3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ZINC SULFATE)

Hazard Class: 9

Packing Group: III

Label Required: Class 9

Reportable Quantity (RQ): 1000# (Zinc Sulfate)

Note: This material is not DOT regulated in shipments of less than 5824#.

15. REGULATORY INFORMATION

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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 Hazards: Please see Section 2 of this SDS.

<u>Regulated Components:</u> <u>Component</u>	<u>CAS</u> <u>Number</u>	<u>CERCLA</u> <u>RQ</u>	<u>SARA</u> <u>EHS</u>	<u>SARA</u> <u>313</u>	<u>U.S.</u> <u>HAP</u>	<u>WI</u> <u>HAP</u>	<u>Prop</u> <u>65</u>
Sulfuric acid, zinc salt (1:1)	7733-02-0	Yes	No	Yes	No	No	No

16. OTHER INFORMATION**Hazard Rating System**

Health: 2

Flammability: 0

Reactivity: 0

* = Chronic Health Hazard

NFPA Rating System

Health: 2

Flammability: 0

Reactivity: 0

Special Hazard: None

SDS 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

SDS Prepared by: csh

Reason for Revision: Changes made throughout the SDS.

Revised: 03-05-2018, SDS0615.02

Replaces: 01-22-2018, SDS0615.01

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 HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.