

Safety Data Sheet ZINC MANGANESE X-TRA 5X5

SDS Number: 414 Revision: February 8, 2017

Section 1 · IDENTIFICATION

Product Name Zinc Manganese X-Tra 5x5

Other Identification Proprietary mixture of zinc sulfate, manganese sulfate and organic

complexing agents.

Recommended Use Agricultural Industry – Fertilizer use

Manufacturer

Company Name Custom Ag Formulators, Inc.

Address 3430 S Willow Ave, Fresno, CA 93725, United States

Telephone (800) 355-4457 Website www.4caf.com

Emergency Contacts Custom Ag Formulators, Inc. (559) 435-1052

CHEMTREC (800) 424-9300 (Domestic)

(703) 527-3887 (International)

Section 2 · HAZARD(S) IDENTIFICATION

Signal Word

Warning

Label



Physical Hazards Not Classified.

Health Hazards Category 2 **Reactivity Hazards** Category 5

Environmental

Hazards

Category 0

Flammability Hazards Category 5

OSHA Defined Hazards Not Classified.

Hazard Statement In Case of Fire: Media as needed to control primary source of fire.

If Swallowed: If person is conscious give large amounts of water, then

induce vomiting. Get medical attention immediately.

If on Skin or Hair: Wash thoroughly with soap and water. If irritation

persists obtain medical attention.

If in Eye: Wash thoroughly with clean water for at least 15 minutes, occasionally lifting upper and lower lids. Call doctor immediately for

further treatment advice.

If Inhaled: Remove from contaminated atmosphere. Inhalation of spray may be irritating to respiratory tract. Obtain medical attention if irritation

persists.



Storage Store locked up.

Disposal Dispose of contents/container in accordance with local, regional, national,

and international regulations.

Section 3 · COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name Common Name & Synonyms CAS Number %

Citric Acid N/A 7758-99-8 Proprietary

Section 4 · FIRST-AID MEASURES

Inhalation When symptoms occur: go into open air and ventilate suspected area. Call a

POISON CENTER or doctor/physician if you feel unwell.

Skin Contact Remove contaminated clothing. Drench affected area with water for at

least 15 minutes. Obtain medical attention if irritation develops or persists.

Wash contaminated clothing before reuse.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing for at least 60 minutes.

Immediately call a POISON CENTER or doctor/physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER

or doctor.

General Information Ensure that medical personnel are aware of the material(s) involved, and

take precautions to protect themselves. Show this safety data sheet to the

doctor in attendance.

Section 5 · FIRE-FIGHTING MEASURES

Suitable extinguishing Not flammable, use media suitable for combustibles involved in fire.

Unsuitable None known.

extinguishing

from the chemical

Specific hazards arising Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May react violently with oxidants, causing fire and explosion

hazard.

Special protective equipment and precautions for firefighters

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective

clothing.

Fire-fighting equipment/instructions

Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from

firefighting to enter drains or water courses.

Specific methods Use standard firefighting procedures and consider the hazards of other

involved materials.



General fire hazards

Do not enter fire area without proper protective equipment, including

respiratory protection.

Section 6 · ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

Methods and materials for containment and cleaning up

Large Spills Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. If spilled directly onto the ground, remove sufficient soil to ensure material is

fully recovered. Contact competent authorities after a spill.

Small Spills Contain any spills with dikes or absorbents to prevent migration and entry

into sewers or streams.

Environmental precautions

Prevent entry to sewers and public waters.

Section 7 · HANDELING & STORAGE

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, and spray. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up.

Incompatible Products: Strong oxidizers. This product is not compatible with lead or mercury or their alloys. These materials of construction should not be used in handling systems or storage containers for this product.

Section 8 · EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure

limits

No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

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Appropriate Emergency eye wash fountains should be available in the immediate engineering controls vicinity of any potential exposure. Ensure adequate ventilation, especially

in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection Neoprene rubber gloves and apron should be worn to prevent repeated or

prolonged contact with the liquid. Wash contaminated clothing prior to

reuse.

Hand protection Wear appropriate chemical resistant gloves.

Respiratory protection None generally required. If conditions exist where mist may be generated,

a NIOSH/MSHA approved mist respirator should be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

There are no known hazards associated with this product when use as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating

or drinking.

Section 9 · PHYSICAL & CHEMICAL PROPERTIES

Appearance Clear, liquid.

Odor N/A
Odor threshold N/A
pH 1.11
Melting point/freezing point N/A

Initial boiling point and boiling range > 212 °F (> 100 °C)

Flash point N/A
Evaporation rate N/A
Flammability (solid, gas) N/A
Upper/lower flammability or explosive limits

Flammability limit - lower (%) N/A
Flammability limit - upper (%) N/A
Explosive limit - lower (%) N/A
Explosive limit - upper (%) N/A

Vapor density N/A

Relative density 11.20 lbs/gal

Specific gravity N/A

Solubility(ies)

Solubility (water) 100%

Partition coefficient (n-octanol/water) N/A
Auto-ignition temperature N/A
Decomposition temperature N/A
Viscosity N/A

Section 10 · STABILITY & REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use,

storage and transport.

Chemical stability Material is stable under normal conditions

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Possibility of hazardous

reactions

Hazardous polymerization will not occur

Conditions to avoid Direct sunlight. Extremely high or low temperatures. Sources of ignition.

Incompatible materials.

Incompatible materials Strong oxidizers. This product is not compatible with lead or mercury or

their alloys. These materials of construction should not be used in handling

systems or storage containers for this product.

Hazardous

decomposition

products

None known.

Section 11 · TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion Not determined. Inhalation Not determined. Skin Contact Not determined. Eye Contact Not determined.

Symptoms related to

the physical, chemical

and toxicological characteristics

Not determined.

Information on toxicological effects:

Acute toxicity Not determined.

Skin

corrosion/irritation

Not determined.

Serious eye

damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory

sensitization

May cause an allergic skin reaction

Skin sensitization

May cause an allergic skin reaction

Germ cell mutagenicity

No data available to indicate product or any components present at

greater than 0.1% are mutagenic or genotoxic

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

OSHA Specifically

Not listed.

Regulated Substances

Reproductive toxicity

This product is not expected to cause reproductive or developmental

effects

Specific target organ

toxicity - single

Not classified.

exposure

Not classified.

Specific target organ toxicity - repeated

exposure



Aspiration hazard Not available.

Section 12 · ECOLOGICAL INFORMATION

No data available. **Ecotoxicity** Persistence and

degradability

No data available.

Bio accumulative

No data available.

potential

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

Section 13 · DISPOSAL CONSIDERATION

Consult federal, state and local regulations for disposal requirements. **Disposal instructions**

Local disposal regulations

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be

disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue,

follow label warnings even after container is emptied.

Section 14 · TRANSPORT INFORMATION

General Not DOT regulated in domestic (USA ground) transportation in package

> sizes less than 3,550 lbs (317 gallons); 1,610 kg (1,200 liters). The DOT transportation information below is for shipments with package sizes equal

to or exceeding this value. IMDG Regulated Marine Pollutant.

DOT - Basic shipping requirements:

UN number Not regulated for transport

DOT Label Not regulated for transport

Proper shipping name Not regulated for transport

> Hazard class Not regulated for transport

Packing group Not regulated for transport

IMGD - Basic shipping requirements:

UN number Not regulated for transport

Not regulated for transport IMGD Label

Proper shipping name Not regulated for transport

> Hazard class Not regulated for transport Not regulated for transport Packing group

> > EMS NO Not regulated for transport

IATA - Basic shipping requirements:



UN number Not regulated for transport

Proper shipping name Not regulated for transport

Hazard class Not regulated for transport Packing group Not regulated for transport

OCAP Not regulated for transport

Environmental hazards

Marine pollutant N/A

Special precautions Read safety instructions, SDS and emergency procedures before handling.

Section 15 · REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29

CFR 1910.1200.

Proposition 65 (CA) Warning: This product contains chemicals known to the State of California

to cause cancer and birth defects or other reproductive harm.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

Reportable Quantity Not applicable

SARA 304 Emergency release notification Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard Yes

Delayed Hazard No
Fire Hazard No
Pressure Hazard No
Reactivity Hazard No

SARA 302 Extremely hazardous substance Not listed

SARA 311/312 Hazardous chemical Immediate (acute)

Section 16 · OTHER INFORMATION

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Disclaimer The above information is based on data of which the manufacturer is aware and is

believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material

for his particular purpose.