



Safety Data Sheet NUTRA BUILDER ZMS

SDS Number: 620

Revision: Jan 3, 2016

Section 1: IDENTIFICATION

Product Name: NUTRA BUILDER ZMS

Other Identification:

Chemical Family: Mixture of Zinc sulfate and Manganese sulfate

Recommended Use of Chemical: Agricultural Industry – Fertilizer use

Manufacturer: CUSTOM AG FORMULATORS, INC
3430 S. Willow Ave
Fresno, CA 93725
Information: (559) 435-1052

Emergency Contact: CUSTOM AG FORMULATORS, Inc. (800) 355-4457
CHEMTREC (800) 424-9300 Domestic

Section 2: HAZARD(S) IDENTIFICATION

Hazard Classification:

Acute Tox. 4 (Oral)	H302
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Symbol(s):



Signal Word: DANGER

Hazard Statement(s): H302 - Harmful if swallowed
H318 - Causes serious eye damage/irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P264 - Wash Skin thoroughly after handling

NUTRA BUILDER ZMS

P270 - Do not eat, drink or smoke when using this product
 P273 - Avoid release to the environment
 P280 - Wear eye protection,
 protective gloves
 P301+P312 - If swallowed: Call a doctor if you feel unwell
 P305+P351+P338 - If in eyes: Rinse cautiously with water for
 several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing
 P310 - Immediately call a doctor
 P330 - Rinse mouth
 P391 - Collect spillage
 P501 - Dispose of contents/container to an authorized waste
 collection point

Section 3:	COMPOSITION/INFORMATION on INGREDIENT
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Chemical Ingredients: (See Section 8 for exposure guidelines)

Chemical	Synonym Common Name	CAS No.	EINECS No.	% by Wt.
Manganese sulfate	N/A	14168-73-1	N/A	Proprietary
Zinc Sulfate	N/A	7446-19-7	N/A	Proprietary

Section 4:	FIRST AID MEASURES
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Symptoms/Effects:

Acute: Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract.

Chronic: No known chronic effects.

Eyes: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Take victim to an ophthalmologist.

Skin: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.

Ingestion: If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.

Inhalation: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention.

Section 5: FIRE FIGHTING MEASURES
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Flammable Properties: (See Section 9 for additional flammable properties)

Extinguishing Media:

Suitable Extinguishing Media: Not flammable, use media suitable for combustibles involved in fire.

Unsuitable Extinguishing Media: None known

Protection of Firefighters:

Specific Hazards Arising from the Chemical:

Physical Hazards: Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases.

Protective Equipment and Precautions for Firefighters:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment specified in Section 8. Isolate the hazard area and deny entry to unnecessary, untrained and unprotected personnel.

Environmental Precautions: Keep out of "waters of the United States" because of potential aquatic toxicity.

Methods of Containment:

Small Release: Confine and absorb small releases with sand, earth or other inert absorbents.

Large Release: Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into surface waterways (potential aquatic toxicity), storm drains.

Methods for Cleanup:

Small Release: Shovel up the absorbed material and place in drums for disposal as a chemical waste or recycle as a fertilizer as the original product was intended.

Large Release: Recover as much of the spilled product as possible using portable pump and hoses. Use recovered material as originally intended or dispose of as a chemical waste. Treat remaining material as a small release (above).

Other Information: Not applicable

Section 7: HANDLING and STORAGE

Handling: Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin.

Storage: Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures. (See Section 10.5 for materials of construction.)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical	OSHA PELs		ACGIH TLVs	
	TWA	STEL/C	TLV	STEL
Not applicable				

Engineering Controls: Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled.

Personal Protective Equipment (PPE):

Eye/Face Protection:	Chemical goggles and a full 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.
Respiratory Protection:	Chemical respirator with organic vapor cartridge and full facepiece.
Hygiene Considerations:	Use of good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL and CHEMICAL PROPERTIES

Appearance:	Tan powder
Odor:	odourless
Odor Threshold:	Not determined
pH:	4.5-5 (5%)
Boiling Point:	>500°C
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Not applicable
Upper/Lower Flammability Limits:	Not applicable
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Relative Density:	2.5
Specific Gravity:	2500 kg/m ²
Solubility (in water):	Complete
Partition Coefficient:	Not applicable
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	>500°C
Viscosity:	Data not available.

Section 10: STABILITY and REACTIVITY

Reactivity:	Avoid interaction with heat (flames), oxidizers or acids.
Chemical Stability:	This is a stable product under normal (ambient) temperature and pressure conditions.
Possibility of Hazardous Reactions:	None known
Conditions to Avoid:	No additional information.
Incompatible Materials:	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
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Nutra Builder ZMS

LD50

ORAL: RAT 8050 mg/kg estimated

LD50

ORAL: RAT 1430 mg/kg estimated

Acute Toxicity

Oral: Harmful if swallowed

Dermal:

Slightly irritating

Inhalation:

Prolonged inhalation may be harmful. May cause damage to organs through prolonged repeated exposure.

Eyes:

Causes serious eye damage pH 4 (5%)

Chronic/Carcinogenicity:

Not listed in NTP, IARC or by OSHA.

Teratology:

Not determined

Reproduction:

Not determined

Mutagenicity:

Not determined

Section 12: ECOLOGICAL INFORMATION
AQUATIC

Crustacea	EC50 Daphnia	26.76 mg/l	48 hours estimate
Fish	LC50 Fish	45.27 mg/l	96 hours estimate

Ecotoxicity: Dangerous for the environment

Persistence & Degradability: Not determined

Bioaccumulative Potential: This product is not bioaccumulative.

Mobility in Soil: Not determined

Other Adverse Effects: Not determined

Section 13: DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal requirements. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Treat using the best available techniques before discharge into drains or the aquatic environment.

Section 14: TRANSPORT INFORMATION
Basic Shipping Description:

Not DOT regulated in Domestic (USA Ground) Transportation in package sizes less than 2059 lbs (935 kg) The DOT transportation information below is for shipments with package sizes equal to or exceeding this value. IMDG Regulated Marine Pollutant.

DOT

UN Number	UN3077
Proper Shipping Name:	Environmentally hazardous substances, solid, n.o.s. (Zinc Sulfate RQ = 2059 lbs)
Hazard Classes:	9
Subsidiary risk:	Not applicable
Labels packing:	9
Group Environmental:	III
Hazards:	
Marine Pollutant	YES

Additional Information:**Other DOT Requirements:**

SPECIAL PROVISIONS	8,146,335,A112,B54,IP3,N20, T1, TP33
Packaging Exceptions	155
Packaging non Bulk	213
Packaging non Bulk	240

DOT Shipping Notes: 40 CFR 172.504(f)(9) For Class 9, a CLASS 9 placard is not required for domestic (USA ground) transportation, however shipments with packaging exceeding the Reportable Quantity (RQ) or bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required. Since the Class 9 placard is not required (although it may be used) the hazardous material endorsement is also not required on a Commercial Drivers License.

IATA

UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Zinc Sulfate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s) Packing	9
group Environmental hazards	III Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Forbidden.
Cargo aircraft only	Forbidden.

IMDG

UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Zinc Sulfate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s) Packing	9
group Environmental hazards	III
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

General information Not DOT regulated in domestic (USA ground) transportation in package sizes less than 2059 lbs (935 kg). The DOT transportation information below is for shipments with package sizes equal to or exceeding this value. IMDG Regulated Marine Pollutant.

DOT; IATA; IMDG



Marine pollutant

Section 15: REGULATORY INFORMATION

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

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Manganese Sulfate, monohydrate (CAS 10034-96-5)

Listed. Zinc Sulfate (CAS 7733-02-0) Listed.

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 - Yes
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

State regulations:

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

Section 16: OTHER INFORMATION

REVISIONS: 5/10/2015

PREVIOUS REVISION: 4/1/2015

FURTHER INFORMATION:

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.