

1. IDENTIFICATION

Product Name: TRIVAR EZ
Product Type: Solid
Recommended /Restrictions of use: Fertilizer Micronutrient Additive
Supplier's Details: CHS Inc.
5500 Cenex Drive
Inver Grove Heights, MN 55077
Telephone: 651-355-6000

Emergency contact number:
CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Hazard Classification: This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

Serious eye damage – Category 1
STOT-RE – Category 2
Acute Toxicity – Category 4

Signal word: Danger

Hazard statements: Causes serious eye damage (H318)
May cause damage to organs through prolonged or repeated exposure (H373)
Harmful if swallowed (H302)

Hazard pictograms:



Precautionary statements:

Prevention	Keep out of reach of children. Obtain, read and follow all safety instructions before use. Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Do not touch eyes. Do not eat, drink, or smoke when using product. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get emergency medical help. IF SWALLOWED: Get medical help. Rinse mouth. Get medical advice if you feel unwell.
Storage	Store locked up.
Disposal	Dispose of contents/container to an approved waste disposal.

Other hazards: None identified.

Other hazards not contributing to the classification: Spill area may be slippery.

Unknown components with acute toxicity: None.



3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture

<u>Chemical name/component</u>	<u>CAS#</u>	<u>Concentration</u>
Gypsum	13397-24-5	> 15 - < 40%
Manganese Oxide	1344-43-0	> 10 - < 20%
Manganese Sulfate Monohydrate	10034-96-5	> 5 - < 15%
Zinc Oxide	1314-13-2	> 5 - < 15%
Zinc Sulfate Monohydrate	7446-19-7	> 5 - < 15%
CHS Additive		> 5 - < 10%
Molybdenum Trioxide	1313-27-5	<0.1%

4. FIRST-AID MEASURES

Description of first aid measures:

Eye Contact - If in eyes: Flush with water for 15 minutes. Call a doctor for treatment if irritation persists.
Skin Contact - If on skin: Wash thoroughly with soap and water. Launder clothing before reuse.
Inhalation - If inhaled: Remove affected person from source of exposure. Call 911 if breathing is difficult.
Ingestion - If ingested: Do not induce vomiting. Get medical attention. Have the product label with you when calling a doctor or going for treatment.

Indication of any immediate medical attention and special treatment needed: No additional information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water fog, foam or spray, dry chemical, carbon dioxide, sand
Unsuitable extinguishing media: None

Special hazards arising from the substance or mixture: Material is not combustible. Product packaging is not self-ignitable, but may support combustion.

Advice for firefighters:

Firefighting instructions: Use extinguishing media appropriate for the surrounding materials.
Protection during firefighting: Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Other information: Do not allow run-off from fire-fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Use protective equipment to prevent contact with skin and eyes or inhalation of dust.
Use site specific emergency procedures if product is released. Prevent entry to sewers and public surface waters per site specific containment procedures.

Methods and material for containment and cleaning up:

Use mechanical means. Store material in suitable containers for recycle or disposal.
Minimize dust generation.



7. HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. After handling, wash hands thoroughly with soap and water. Avoid generating and breathing dust. Wash before eating and drinking.

Safe Storage conditions: Store in a dry, cool, and well-ventilated area. Protect from weather.

Incompatible materials: Strong alkaline or acid compounds.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limits are listed below, if they exist:

Component	Regulation	Type of listing	Value/Notation
Dust – inhalable particles	ACGIH	TWA	10 mg/ m ³
Dust – respirable particles	ACGIH	TWA	3 mg/ m ³
Gypsum (total)	OSHA / NIOSH	TWA	15 mg/ m ³ / 10 mg/ m ³
Gypsum (respirable)	OSHA / NIOSH	TWA	5 mg/ m ³ / 5 mg/ m ³
Manganese compounds	ACGIH / NIOSH	TWA	2 mg/m ³ / 1 mg/m ³
Zinc compounds	OSHA/ ACGIH	TWA	15 mg/ m ³ / 10 mg/ m ³

Engineering controls: Use adequate ventilation to prevent exposure.

Personal protective measures:

Hand protection: Wear suitable protective gloves to prevent direct exposure.

Eye protection: Safety glasses with side shields or tight fitting goggles.

Skin and body protection: Wear long sleeved clothing or other suitable clothing to prevent skin exposure.

Respiratory protection: Where dust is generated and appropriate engineering controls cannot maintain acceptable levels, use appropriate respiratory protection equipment to prevent inhalation of materials.

Special requirements for PPE, protective clothing or respirators: No specialty PPE requirements beyond those previously identified.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid	Vapor pressure:	NA
Color:	Brown	Vapor density:	NA
Odor:	Slight metallic	Relative density	76 lbs/ft ³
Odor threshold:	NA	Solubility:	Partially soluble in water
pH:	6-7.0	Partition coefficient:	NA
Melting point/freezing point:	NA	Auto ignition temp:	NA
Initial boiling point/range:	NA	Decomposition temp:	NA
Flashpoint:	NA	Viscosity:	NA
Evaporation rate:	NA		
Flammability (solid gas):	NA		
Upper/lower flammability or explosive limits:	NA		

Other information: No additional information.



10. STABILITY AND REACTIVITY

This product is stable under normal conditions of use, storage and transport.

Reactivity:

Chemical stability: This product is stable at ambient temperatures and atmospheric pressures.

Other:

Hazardous reactions: None determined.

Conditions to avoid: Avoid high temperatures. Prevent contact with moisture or incompatible materials.

Incompatible materials: Strong alkaline or acid compounds.

Hazardous decomposition products: Metal and sulfur fumes when excessive heat is applied.

11. TOXICOLOGICAL INFORMATION

Inhalation, Ingestion, Skin contact, Eye contact

Likely routes of exposure:

Symptoms/injuries after inhalation: High concentrations of dust may irritate the throat and respiratory system and cause coughing.

Symptoms/injuries after Ingestion: Harmful if swallowed.

Symptoms/injuries after skin contact: Prolonged contact may cause skin irritation

Symptoms/injuries after eye contact: Causes serious eye damage.

Acute toxicity: Mixture based on components' toxicity.

Reproductive toxicity: Not classified.

Specific Target Organ Toxicity-S E: Not classified.

Specific Target Organ Toxicity-R E: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: Not classified

NTP (National Toxicology Program): Not classified

IARC (International Agency for Research on Cancer): Not classified

ACGIH (American Conference of Governmental Industrial Hygienists): Not classified

12. ECOLOGICAL INFORMATION

No testing data available.

Toxicity:

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data is available.

Mobility in soil: No data is available.

Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Recommend recycling excess product if at all possible. Avoid sewage and landfill disposal. Place contaminated material in suitable, labeled containers for disposal. See section 8 for exposure control information.

14. TRANSPORT INFORMATION

DOT: Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.



15. REGULATORY INFORMATION

OSHA Hazard Communication Standard: This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Ingredients listed on TSCA inventory: Yes

CERCLA Section 103 Hazardous Substances: Manganese Compounds, Zinc Compounds

EPCRA Section 311/312 Hazard Categories: Serious Eye Damage, STOT-RE, Acute Toxicity

EPCRA Section 313 Toxic Release Inventory: Manganese Compounds, Zinc Compounds

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Micronutrient Approvals / Registrations: California Department of Food and Agriculture (CDFA):

Company Registration# 11554

16. OTHER INFORMATION

Date of preparation/issue date: April, 04 2024

Version: initial

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this (M)SDS.