



1. IDENTIFICATION

Product Name: **13-0-44**
Product Type: Solid
Recommended /Restrictions of use: Fertilizer
Supplier's Details: PRO•SOL
PO Box 1589
Ozark, AL 36361-1589
334-774-2515

Emergency contact number:
Chemical Emergencies - 800-535-5053
Medical/Handling Emergencies - INFOTRAC
800-535-5053 USA 352-323-3500 International

2. HAZARDS IDENTIFICATION

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

Oxidizing solids – Category 3

Signal word: Warning

Hazard statements: May intensify fire; oxidizer (H272)

Hazard pictograms:



Precautionary statements:

Prevention	Keep out of reach of children. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat, hot surface, sparks, open flames and other ignition sources – No smoking. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles.
Response	In case of fire: Use Water fog, foam or spray, dry chemical, carbon dioxide, sand for extinction.
Storage	NA.
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>
Potassium Nitrate	7757-79-1	> 90 - < 100%
Fe EDTA	15708-41-5	< 1%
Mn EDTA	15375-84-5	< 1%
Cu EDTA	14025-15-1	< 1%
Zn EDTA	14025-21-9	< 1%
Sodium Borate	12280-03-4	<0.1%
Sodium Molybdate	10102-40-6	<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 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
Copper compounds	OSHA / ACGIH / NIOSH	TWA	1 mg/ ³ / 1 mg/m ³ / 1 mg/m ³
Manganese compounds	ACGIH / NIOSH	TWA	0.02 mg/m ³ / 1 mg/m ³
Molybdenum, soluble compounds	ACGIH	TWA	0.5 mg/m ³
Zinc compounds (dust)	ACGIH	TWA	10 mg/m ³

<u>Engineering controls:</u>	Use adequate ventilation to prevent exposure.
<u>Personal protective measures:</u>	
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	Evaporation rate:	NA
Color:	Pale Blue	pH:	5.5-6.5 at 5% conc
Odor:	Odorless	Vapor pressure:	NA
Odor threshold:	NA	Vapor density:	NA
Melting point/freezing point:	NA	Relative density	68 lbs/ft ³
Initial boiling point/range:	NA	Solubility:	100% soluble in water
Flashpoint:	NA	Partition coefficient:	NA
Flammability (solid gas):	NA	Auto ignition temp:	NA
Upper/lower flammability limits:	NA	Decomposition temp:	NA
Upper/lower explosive limits:	NA	Viscosity:	NA

Other information: No additional information.

10. STABILITY AND REACTIVITY

<u>Reactivity:</u>	The product is reactive.
<u>Chemical stability:</u>	The product is considered an oxidizer.
<u>Other:</u>	
Hazardous reactions:	The product reacts with combustible materials and increases combustion even in the absence of air. Reacts with many compounds e.g.: with organic material, with combustible materials, with (some) metals and their compounds and with (strong) reducers. Reacts with (some) acids: release of toxic and corrosive gases/vapors (nitrous vapors). Heating under strong confinement (e.g. in tubes or drains) may lead to a violent reaction or explosion. Can melt and decompose in a fire.
Conditions to avoid:	Avoid high temperatures. Prevent contact with moisture or incompatible materials.
Incompatible materials:	Keep substance away from: strong acids, strong bases and oxidation agents, combustible materials, reducing agents, organic materials, metal powders, chromates, chlorates, copper, zinc, aluminum.
Hazardous decomposition products:	On heating/burning: release of toxic and corrosive gases/vapors nitrous vapors. Decomposes on exposure to temperature rise: release of oxygen. . Reacts with (some) acids: release of toxic and corrosive gases/vapors.



11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Inhalation, Ingestion, Skin contact, Eye contact	
Symptoms/injuries after inhalation:	High concentrations of dust may irritate the throat and respiratory system and cause coughing.	
Symptoms/injuries after Ingestion:	Mixture components not known to be harmful.	
Symptoms/injuries after skin contact:	Prolonged contact may cause skin irritation	
Symptoms/injuries after eye contact:	Dust may cause eye irritation.	
Acute toxicity:	Mixture based on components' toxicity.	
Reproductive toxicity:	No relevant data found.	
Specific Target Organ Toxicity-S E:	No relevant data found.	
Specific Target Organ Toxicity-R E:	No relevant data found.	
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

Toxicity:	No testing data available.
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

<u>Waste treatment methods:</u>	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.
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14. TRANSPORT INFORMATION

DOT: UN 1486, POTASSIUM NITRATE MIXTURE, 5.1, PG III

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:	Copper Compounds, Manganese Compounds, Zinc Compounds
EPCRA Section 311/312 Hazard Categories:	Oxidizing solids
EPCRA Section 313 Toxic Release Inventory:	Copper Compounds, Manganese Compounds, Zinc Compounds

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

This product not known to contain 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# 11871



16. OTHER INFORMATION

Date of preparation/issue date: April 4, 2020
Version: 1.2

Disclaimer: The information in this Safety Data Sheet should be provided to all who will use, handle store, transport or otherwise be exposed to this product. All information concerning this product and/or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. PRO•SOL, however, makes no warranty as to the accuracy of and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Buyer shall determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. The information contained herein supersedes all previously issued bulletins on the subject matter covered.