

# 1. IDENTIFICATION

<u>Product Name</u>: **17-5-25 CLF** 

<u>Product Type</u>: Solid

Recommended / Restrictions of use: Fertilizer Micronutrient

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

<u>Hazard Classification</u>: This material is hazardous under the criteria of the Federal OSHA Hazard

Communication Standard 29 CFR 1910.1200.

Eye irritant – Category 2A Oxidizing solids- Category 3

Signal word: Warning

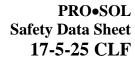
<u>Hazard statements:</u> Causes serious eye irritation (H319)

May intensify fire; oxidizer (H272)

Hazard pictograms:









Precautionary statements:

Prevention Keep out of reach of children.

Wash skin thoroughly after handling.

Do not eat, drink, or smoke when using product.

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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.

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.

<u>Unknown components with acute toxicity:</u> None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture

<u>Chemical name/component</u>	CAS#	Concentration
Potassium Nitrate	7757-79-1	> 45 - < 60%
Ammonium Nitrate	6484-52-2	> 20 - < 35%
Monoammonium Phosphate	7722-76-1	>5 - < 20%
Magnesium Sulfate- Anhydrous	7487-88-9	>5 - < 20%
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.

<u>Indication of any immediate medical attention and special treatment needed</u>: 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 Material is not combustible. Product packaging is not self-ignitable, but may

substance or mixture: support combustion.

Advice for firefighters:

Firefighting instructions: Use extinguishing media appropriate for the surrounding materials.

Protection during Wear appropriate protective equipment and self-contained breathing apparatus

firefighting: (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.

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

<u>Incompatible materials</u>: 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	$10 \text{ mg/m}^3$
Dust – respirable particles	ACGIH	TWA	$3 \text{ mg/ m}^3$
Magnesium compounds (dust)	ACGIH	TWA	$10 \text{ mg/m}^3$
Manganese compounds	ACGIH / NIOSH	TWA	$0.02 \text{ mg/m}^3 / 1 \text{ mg/m}^3$
Molybdenum, soluble compounds	ACGIH	TWA	$0.5 \text{ mg/m}^3$
Zinc compounds (dust)	ACGIH	TWA	$10 \text{ mg/m}^3$

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:	Pale blue	Vapor density:	NA
Odor:	Odorless	Relative density	62 lbs/ft <sup>3</sup>
Odor threshold:	NA	Solubility:	100% soluble in water
pH:	4.0-5.0 at 5% concentration	Partition coefficient:	NA
Melting point/freezing	NA	Auto ignition temp:	NA
point:			
Initial boiling point/range:	NA	Decomposition temp:	NA
Flashpoint:	NA	Viscosity:	NA
Evaporation rate:	NA		
Flammability (solid gas):	NA		
Upper/lower flammability	NA		
or explosive limits:			

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.

Other:

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 (eg. 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: 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:

Specific Target Organ Toxicity-S E:

Specific Target Organ Toxicity-R E:

No relevant data found.

No relevant data found.

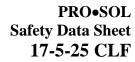
Carcinogenicity: Not classified

NTP (National Toxicology Program):

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

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: UN1477, NITRATES, INORGANIC, N.O.S, 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: Serious eye damage, 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 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# 11871

### 16. OTHER INFORMATION

Date of preparation/issue date: April 4, 2020

Version: 1.1

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.