

4-18-38 Hydroponic Tomato Special Safety Data Sheet #64757

1. IDENTIFICATION

Product identifier 4-18-38 Hydroponic Tomato Special

Synonyms None

Recommended use Uses advised againstWater Soluble Fertilizer
None. Non-hazardous

Company Southern Agricultural Insecticides, Inc.

P.O. Box 218

Palmetto, FL 34220

Company Telephone/Fax (941) 722-3285/(941) 723-2974

Emergency Telephone Number For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident,

Call CHEMTREC Day or Night: 1-800-424-9300

2. HAZARD(S) IDENTIFICATION

OSHA Regulatory Status: This chemical is not considered hazardous by the 2012 OSHA Hazard Communi-

cation Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized

System (GHS)

Label Elements:

Emergency Overview The product contains no substances which at their given concentration, are

considered to be hazardous to health

Appearance: Crystals Physical State: Solid Odor: Fertilizer

Hazards Not Otherwise Classified (HNOC):

Other Information:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	%
Potassium Nitrate	7757-79-1	26.5
Potassium Sulfate	7778-80-5	31.6
Iron DTPA 11%	12389-75-2	3.64
Monoammonium Phosphate	7722-76-1	4.40
Monopotassium Phosphate	7778-77-0	31.3
Boric Acid	10043-35-3	1.10
Copper Sulfate	7758-99-8	0.20
Sodium molybdate	10102-40-6	0.03
Zinc EDTA 15%	14025-21-9	0.34

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST-AID MEASURES

First Aid Measures:

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control

center or doctor for treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control

center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip

a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious

person.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.

Specific hazards: Dust at sufficient concentrations may form explosive mixtures with air. **Hazardous Combustion** Thermal decomposition can lead to release of irritating gases and vapors.

Products:

Explosion Data:

Sensitivity to Mechanical Impact:

no data available.

Sensitivity to Static Discharge:

no data available.

Special Protective Equipment In the event of fire, wear self-contained breathing apparatus.

for Firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions: Avoid dust formation. Avoid contact with skin, eyes and clothing. Wear personal

protective equipment.

Environmental Precautions: Prevent product from entering drains.

Methods and Material for Containment and Cleanup:

Methods for containment: Vacuum or sweep up material and place in a disposal container. **Methods for Cleanup:** Take up mechanically and collect in suitable container for disposal.

are up mechanically and collect in sultable container for dispo

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing.

Conditions for Safe Storage, Including any Incompatibilities:

Storage: Store in a cool, dry area away from incompatible materials and heat sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines:

IngredientsCAS-NoACGIH:OSHA:IDLH:Potassium Nitrate7757-79-1Not ListedNot ListedNot ListedBoric Acid12280-03-46 mg/m3Not establishedNot established

Copper Sulfate 7758-99-8 1 mg/m3 1 mg/m3 N/A

Monoammonium Phosphate 7722-76-1 5 mg/m3 TWA Not available Not available

respirable)

Appropriate Engineering Controls:

Engineering Measures to Reduce Use adequate ventilation to keep the airborne concentrations of this material

Exposure: below the recommended exposure standard.

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Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection: Eye/face protection is not required, but is recommended in manufacturing situations

where contact may occur. Safety glasses with side shields or goggles.

Skin and Body Protection: No special protective clothing is required under normal workplace conditions. If skin

irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if

contact with product is possible.

When airborne exposure guidelines and/or comfort levels may be exceeded, use an **Respiratory Protection:**

approved air-purifying respirator.

General hygiene

Wash hands before breaks and immediately after handling the product.

considerations:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State: Solid **Appearance:** Crystals

Color: Odor Very pale blue No information available

Odor: Fertilizer Threshold:

Property

No information available: :Ha **Melting Point/Freezing Point:** No information available **Boiling Point/Range:** No information available **Flash Point:** No information available **Evaporation Rate:** No information available Flammability (solid, gas): No information available Flammability Limits in Air: No information available **Upper Flammability Limit:** No information available

Lower Flammability Limit: No information available **Vapor Pressure:** No information available Vapor Density: No information available **Specific Gravity:** No information available Solubility: Highly soluble (>80%) Solubility in other Solvents: No information available **Partition Coefficient:** No information available **Autoignition Temperature:** No information available **Decomposition Temperature:** No information available **Kinematic Viscosity:** No information available **Dynamic Viscosity:** No information available **Explosive Properties:** No information available

Other Information:

Oxidizing Properties:

Softening Point: No information available **Molecular Weight:** No information available **VOC Content ():** No information available Density: No information available

Bulk density: 55-75 lbs/cu.ft.

10. STABILITY AND REACTIVITY

Not considered an oxidizer

Reactivity: Stable under normal conditions

Chemically Stable:

Conditions to Avoid: Extreme heat. Damp or wet conditions. Dust may form explosive mixture in air.

Materials to avoid Strong oxidizing agents. **Hazardous Decomposition**Combustion may produce irritating gases and vapors.

Products:

Possibility of Hazardous Reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

General information: Chronic exposure to nitrates may cause weakness, depression, headache, blood changes

(anemia and methemoglobinemia), and kidney injury (nephritis)

Eye effects: May cause eye irritation with susceptible persons **Skin effects:** May cause skin irritation in susceptible persons

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: May cause irritation of respiratory tract.

Component Information:

IngredientsLD50 OralLD50 DermalLC50 InhalationPotassium Nitrate= 3015 mg/kg (Rat)> 2000 mg/kg> 527 mg/m3

7757-79-1

Boric Acid = 3765 mg/kg (Rat) > 2000 mg/kg (Rabbit) > 2.03mg/L (Rat)

12280-03-4

Copper Sulfate 352 mg/kg (Rat) > 5050 mg/kg (Rabbit) N/A

7758-99-8

<u>Information on Toxicological Effects:</u>

<u>Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:</u>

Sensitization: May cause sensitization of susceptible persons

Mutagenic effects No information available.

Carcinogenicity:

Ingredients ACGIH - Carcinogens IARC: NTP Report on Carcinogens List OSHA

Boric Acid

12280-03-4 N/A - - - -

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Reproductive Toxicity
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration Hazard
No Information available.
No Information available.
No Information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Unknown Aquatic Toxicity: 0.32 of the mixture consists of components(s) of unknown hazards to the aquatic

environment

Ecotoxicity effects: May be toxic to aquatic organisms.

Persistence and degradability: degrades slowly.

Ingredients

Boric Acid)

LOG POW

-0.757 (based on

12280-03-4

Mobility: Water contaminating.

Additional ecological information: Do not contaminate water by cleaning of equipment or disposal of wastes. Do not

apply directly to lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging: Do not reuse container.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land) Not DOT regulated Not regulated Not regulated Not regulated Not regulated

15. REGULATORY INFORMATION

Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK):

California Proposition 65:

U.S. State Right-to-Know Regulations:

U.S. EPA Label information:

EPA Pesticide Registration Number:

not applicable

16. OTHER INFORMATION

NFPA: Health: 1 Flammability: 0 Reactivity: 1
HMIS: Health: 1 Flammability: 0 Reactivity: 1

Disclaimer

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End of Safety Data Sheet 6/1/2018