

Safety Data Sheet

Issue Date: 11-1-15

1. IDENTIFICATION

Product Identifier:

Product Name: Romeo Dry Trace Element Mix

Recommended Use of the Chemical and Restrictions on Use:

Description: General Fertilizer Product

Company:

Romeo Packing Company
106 Princeton Ave.
Half Moon Bay, CA 94019

24-HOUR EMERGENCY TELEPHONE NUMBERS:

Infotrac (U.S.): 1-800-535-5053
Non-Emergency Calls: 1-650-728-3393

2. HAZARD(S) IDENTIFICATION

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|----------------------------------------------------|------------|
| Acute toxicity - Oral | Category 4 |
| Skin Corrosion or Irritation | Category 2 |
| Serious Eye Damage or Eye Irritation | Category 1 |
| Specific Target Organ Toxicity (Repeated Exposure) | Category 2 |

Label Elements:

Emergency Overview

Danger

Hazard Statements:

Harmful if swallowed
Causes skin irritation
Causes serious eye damage
May cause damage to organs through prolonged or repeated exposure



Appearance: granulate & powder

Physical State: Solid

Odor: Fertilizer

Romeo Dry Trace Element Mix

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Get medical advice/attention if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC):

Other Information:

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS-No | Weight % | Trade Secret |
|-------------------------------------------------------------------|-----------|----------|--------------|
| Iron sulphate; FeSO ₄ +1H ₂ O | 7720-78-7 | 40-60 | * |
| Manganese sulphate; MnSO ₄ +1H ₂ O | 7785-87-7 | 5-10 | * |
| Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O | 7758-99-8 | 1-5 | * |
| Zinc Sulfate anh; ZnSO ₄ | 7733-02-0 | 1-5 | * |
| Sodium borate; Na ₂ B ₄ O ₇ | 1330-43-4 | 0.1-1 | * |

* 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:

Romeo Dry Trace Element Mix

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO₂). Dry chemical. Water spray mist or foam.

Specific hazards: Dust clouds may be explosive.

Hazardous Combustion Products: Toxic fumes may be produced.

Explosion Data:

Sensitivity to Mechanical Impact:

no data available.

Sensitivity to Static Discharge:

no data available.

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions: Avoid dust formation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not inhale dust/mist.

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.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Keep out of reach of children and pets. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. Do not contaminate water while cleaning equipment. this product is toxic to fish. Keep out of lakes, streams or ponds. Use proper protective equipment to minimize exposure.

Conditions for Safe Storage, Including any Incompatibilities:

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines:

| Ingredients | CAS-No | ACGIH: | OSHA: | IDLH: |
|----------------------------------------------------------|-----------|---------------------------|------------|-------------------------------|
| Iron sulphate; FeSO ₄ +1H ₂ O | 7720-78-7 | 1 mg/m ³ TWA | Not Listed | Not Listed |
| Manganese sulphate; MnSO ₄ +1H ₂ O | 7785-87-7 | 0.1 mg/m ³ TWA | Not Listed | 500 mg/m ³ IDLH Mn |

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| | | | | |
|-------------------------------------------------------------------|-----------|-------------------------|------------|-------------------------------|
| Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O | 7758-99-8 | 1 mg/m ³ TWA | Not Listed | 100 mg/m ³ IDLH Cu |
| Zinc Sulfate anh; ZnSO ₄ | 7733-02-0 | Not Listed | Not Listed | Not Listed |
| Sodium borate; Na ₂ B ₄ O ₇ | 1330-43-4 | 2 mg/m ³ TWA | Not Listed | Not Listed |

Appropriate Engineering Controls:

Engineering Measures to Reduce Exposure: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection: Safety glasses with side shields or goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin and Body Protection: Wear suitable protective clothing. Impervious gloves. Impervious clothing.

Respiratory Protection: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State: Solid
Color: Tan
Odor: Fertilizer
Appearance: powder with granular prills
Odor: No information available
Threshold:

| <u>Property</u> | <u>Values</u> | <u>Remarks: • Method</u> |
|--------------------------------------|----------------------------|--------------------------|
| pH: | No information available | |
| 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: | | |
| 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: | slightly soluble | |
| 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 | |
| Oxidizing Properties: | Not considered an oxidizer | |

Other Information:

Softening Point: No information available
Molecular Weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk density: No information available

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions

Chemically Stable: yes.

Conditions to Avoid: Dust may form explosive mixture in air.

Materials to avoid Chlorinated compounds. Strong oxidizing agents.

Hazardous Decomposition Products: Combustion produces caustic fumes.

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):

Eye effects: Causes serious eye damage

Skin effects: Causes skin irritation

Ingestion: Harmful if swallowed.

Inhalation: May cause irritation of respiratory tract.

Component Information:

| Ingredients | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------------------------------------------|----------------------|-------------------------|-----------------|
| Iron sulphate; FeSO4+1H2O 7720-78-7 | = 500 mg/kg (Rat) | - | - |
| Manganese sulphate; MnSO4+1H2O 7785-87-7 | = 782 mg/kg (Rat) | - | - |
| Copper sulfate pentahydrate; CuSO4+5H2O 7758-99-8 | = 960 mg/kg (Rat) | - | - |
| Zinc Sulfate anh; ZnSO4 7733-02-0 | = 500 mg/kg (Rat) | - | - |
| Sodium borate; Na2B4O7 1330-43-4 | = 2660 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |

Information on Toxicological Effects:

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Sensitization: May cause sensitization of susceptible persons

Mutagenic effects No information available.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Ingredients | ACGIH - Carcinogens | IARC: | NTP Report on Carcinogens List - | OSHA |
|-------------------------------------|---------------------|-------|----------------------------------|------|
| Sodium borate; Na2B4O7 1330-43-4 | A4 | - | - | - |

Reproductive Toxicity No information available.

STOT - Single Exposure No information available.

STOT - Repeated Exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard No information available.

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Numerical Measures of Toxicity - Product Information:

The following values are calculated based on chapter 3.1 of the GHS document: .

| | |
|------------------|--------------------------|
| ATEmix (oral): | 750 mg/kg |
| ATEmix (dermal): | 60976 mg/kg |
| LD50/oral: | No information available |

12. ECOLOGICAL INFORMATION

Marine Pollutant: This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Ecotoxicity:

Unknown Aquatic Toxicity: 29.79% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects: Very toxic to aquatic life with long lasting effects.

Persistence and degradability: Degrades slowly.

Mobility: Water contaminating.

Additional ecological information: This product contains more than 0.001% Molybdenum (Mo). Do not contaminate water by cleaning of equipment or disposal of wastes.

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) | For domestic shipments marine pollutant container mark and shipping paper entry only apply to bulk and vessel transport |
| DOT (Vessel) | UN3077, Environmentally Hazardous Substance, solid, n.o.s., (copper sulfate), 9, PGIII, Marine Pollutant |
| IATA (Air) | UN3077, Environmentally Hazardous Substance, solid, n.o.s., (copper sulfate), 9, PGIII |
| IMO/IMDG (Vessel) | UN3077, Environmentally Hazardous Substance, solid, n.o.s., (copper sulfate), 9, PGIII, Marine Pollutant |

15. REGULATORY INFORMATION

Federal Regulations:

Romeo Dry Trace Element Mix

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 hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act):

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Ingredients | CWA - Reportable Quantities | CWA - Toxic Pollutants | Clean Water Act - Priority Pollutants | Clean Water Act - Hazardous Substances |
|----------------------------------------|-----------------------------|------------------------|---------------------------------------|----------------------------------------|
| Iron sulphate; FeSO4+1H2O 7720-78-7 | - | - | - | Present |
| Zinc Sulfate anh; ZnSO4 7733-02-0 | - | - | - | Present |

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

| Ingredients | CERCLA/SARA 313 | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---------------------------------------------------------|-------------------------------------|----------------|--------------------------|
| Iron sulphate; FeSO4+1H2O 7720-78-7 | 1000 lb final RQ 454 kg final RQ | - | -- |
| Copper sulfate pentahydrate; CuSO4+5H2O 7758-99-8 | 10 lb final RQ 4.54 kg final RQ | - | -- |
| Zinc Sulfate anh; ZnSO4 7733-02-0 | 1000 lb final RQ 454 kg final RQ | - | -- |

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: 3 Flammability: 0 Reactivity: 1

HMIS: Health: 3 Flammability: 0 Reactivity: 1

Revision Date: 30-Sep-2014

Revision Note:

Reason for revision: None

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