



Safety Data Sheet

Report Date 05-Aug-15

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1. Identification

Product Name : PRO-MATE RONSTAR 1% PLUS FERTILIZER
Synonyms : None
Product Use : Turf fertilizer impregnated with herbicide
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Moderately irritating
Eye Irritation : Mildly irritating
Acute Toxicity Oral : LD50 >5,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rabbit)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2B/2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
May be harmful if inhaled
Causes eye irritation
Causes skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Oxadiazon	19666-30-9	1.00
Inert ingredients, including blend of plant nutrients. See label for Guaranteed Analysis.	Proprietary	99.00

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 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 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. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures



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- Extinguishing Media** : Non-combustible. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Thermal decomposition products may be hazardous. May emit hydrogen chloride and oxides of carbon and nitrogen. Avoid dispersion of dusts into the air to reduce potential explosion hazard.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Dike area to prevent runoff and contamination of water sources.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Avoid dust generation. Stay upwind if possible.
- Methods and Materials for Containment and Cleanup** : To the extent possible, cleanup spillage using shovels. Carefully scoop up loose material and place in appropriate containers so as to avoid dust generation.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL information available.
- Appropriate Engineering Controls** : General and/or local exhaust should be sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Light tan granules with slight amine odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : Not applicable
- Melting Point(Freezing point), °C** : Not applicable
- Vapor Pressure, mm Hg @ 20 °C** : Not applicable
- Vapor Density** : Not applicable
- Solubility in Water** : Partial
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : No information found
- Evaporation Rate(Butyl Acetate = 1)** : Not applicable
- Octanol/Water Partition Coefficient** : No information found
- pH** : Not applicable
- Flammable Limits (approximate volume % in air)** : Not determined
- Auto-ignition Temperature** : Not determined
- Decomposition temperature** : No information found



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10. Stability and Reactivity

- Reactivity :
- Chemical Stability : S
- Hazardous Decomposition : Decomposition products may be hazardous. These may include hydrogen chloride and oxides of carbon and nitrogen.
- Products
- Hazardous Polymerization : W
- Conditions to Avoid :
- Incompatible Materials : Avoid contact with mineral acids, strong bases and oxidizers.

11. Toxicological Information

- Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat) for oxadiazon. May be harmful if swallowed.
- Acute Toxicity (Dermal LD50) : >2,000 mg/kg for oxadiazon. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50 : >200 mg/L/1 hour for oxadiazon. May be harmful if inhaled.
- Likely Routes of Exposure : Eyes, skin, inhalation, ingestion
- Skin Irritation : Causes skin irritation.
- Eye Irritation : Causes eye irritation.
- Skin Sensitization : Non-sensitizing (Guinea pig)
- Carcinogenic : Not listed by IARC, NTP or OSHA.
- Chronic Effects : None currently known. Oxadiazon is not a primary reproductive or developmental toxicant. Oxadiazon did not cause neurotoxicity, mutagenicity or genotoxicity.
- Other Hazards : CA Prop 65 Warning: This product contains oxadiazon, a chemical known to the State of California to cause cancer and reproductive toxicity.

12. Ecological Information

- Ecotoxicity : No information found
- Persistence and Degradability : No information found
- Bioaccumulative Potential : No information found
- Mobility in Soil : No information found
- Other Adverse Effects : No information found

13. Disposal Considerations

- Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

- UN Proper Shipping Name : Not regulated by DOT.
- Transport Hazard Class : None
- UN Identification Number : None
- Packaging Group : None
- Environmental Hazards : No information found
- Transport in Bulk : No information found
- Special Precautions for Transportation : No information found



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Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Solid, NOIBN (NMFC Item 68140, Sub 5, Class 50)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Registration Number : 5905-551

FIFRA Signal Word : Warning

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes substantial but temporary eye injury.

FIFRA Label Statement : Harmful if absorbed through skin.

FIFRA Label Statement : Harmful if inhaled.

FIFRA Label Statement : Do not get in eyes or on clothing.

FIFRA Label Statement : Avoid contact with skin.

FIFRA Label Statement : Avoid breathing dust.

16. Other Information

Data of Preparation/Revision : 05-August-2015