



Safety Data Sheet

Report Date 07/31/2019

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1. Identification

Product Name : RESURGE™
Synonyms : None
Product Use : Granular Leonardite Blend
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : None required
Skin Irritation : Not hazardous
Eye Irritation : Not hazardous
Acute Toxicity Oral : No data available
Acute Toxicity Dermal : No data available
Hazard Categories : Not hazardous

Hazard Statement : Not Hazardous

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Humic Acids (Derived from Leonardite)	Proprietary	70
Inert ingredients	Proprietary	30

4. First Aid Measures

Eye : Flush eyes with water, while holding the eyelids apart. Get medical attention if irritation occurs.
Skin : Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before reuse.
Inhalation : Remove victim to fresh air. Get medical attention if breathing difficulties develop.
Ingestion : Do not induce vomiting. Rinse mouth with water and give one glass of water to drink. Get medical attention if irritation or symptoms develop.
Indication of Immediate Medical Attention and Special Treatment Needed : Immediate medical attention is not required.



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5. Fire Fighting Measures

- Extinguishing Media** : Use extinguishing media appropriate for surrounding fire. Cool fire exposed containers and structures with water.
- Specific Hazards Arising from the Chemical** : None known. Hazardous decomposition materials include oxides of carbon and sulfur and unknown materials.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective equipment for all fires involving chemicals. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.

6. Accidental Release Measures

- Personal Precautions** : Evacuate spill area and keep unprotected personnel away. Prevent contact with eyes, skin and clothing. Ventilate area. Wear appropriate protective clothing.
- Protective Equipment** : Impervious rubber or plastic gloves, chemical safety glasses, impervious coveralls, apron and boots. Respiratory protection is not normally needed. A safety shower and eyewash station should be available.
- Emergency Procedures** : Keep non-essential personnel away and isolate spill area. Prevent spill from entering sewers and water courses.
- Methods and Materials for Containment and Cleanup** : Carefully shovel or sweep up spilled material and place in appropriate container. Avoid generating dust.

7. Handling and Storage

- Precautions for Safe Handling** : Prevent contact with eyes, skin and clothing. Do not breathe dust. Wear appropriate protective clothing and equipment. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Do not reuse containers. Empty containers retain product residues which can be hazardous.
- Conditions for Safe Storage** : Store in a cool, dry, well-ventilated area away from bases and other incompatible materials. Keep container tightly closed. Protect from physical damage.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Humic ore - 15 mg/m³ TWA (total dust), 5 mg/m³ TWA (respirable fraction)
OSHA PEL. Hydrocarbon based coating - 5 mg/m³ TWA (OSHA PEL, ACGIH TLV)
- Appropriate Engineering Controls** : Use with adequate general or local exhaust ventilation.
- Personal Protective Equipment** : Impervious rubber or plastic gloves, chemical safety glasses, impervious coveralls, apron and boots. Respiratory protection is not normally needed. A safety shower and eyewash station should be available.



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9. Physical and Chemical Properties

Odor/Appearance : Dark brown, coated granule with no odor.
Flash Point, °C : >148 Degrees C. (coating)
Boiling Point, °C : Not determined
Melting Point(Freezing point), °C : 300 Degrees C.
Vapor Pressure, mm Hg @ 20 °C : Not determined
Vapor Density : Not determined
Solubility in Water : Insoluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 0.75-0.90 (bulk density)
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : Not determined
pH : 2.0 – 5.5 (1:1 dilution)
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : Not normally reactive.
Chemical Stability : Stable
Hazardous Decomposition Products : Decomposition may release oxides of carbon and sulfur and unknown materials.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None known
Incompatible Materials : Strong bases, strong oxidizing agents and alkalis.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No data available
Acute Toxicity (Dermal LD50) : No data available
Acute Toxicity Inhalation LC50 : No data available
Likely Routes of Exposure : Skin and eyes
Skin Irritation : May cause slight irritation following prolonged contact with skin.
Eye Irritation : May cause slight irritation with redness and tearing.
Skin Sensitization : This material is not known to cause sensitization.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None known



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Other Hazards : None known

12. Ecological Information

Ecotoxicity : No data available.
Persistence and Degradability : No data available.
Bioaccumulative Potential : No data available.
Mobility in Soil : No data available.
Other Adverse Effects : None known.

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

15. Regulatory Information

National Fire Protection Association Rating

Health: 1 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: N
Delayed (Chronic) Health: N
Sudden Release of N Pressure:



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Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 07-31-2019