

# Material Safety Data Sheet

## Section 1. Product and Company Identification

**Product Name:** MULCH MAGIC RED  
**Product Code:** PFM/RED  
**Effective Date:** 1/12/2009

**Manufacturer Information:** Colorbiotics  
 1725 Dayton Avenue  
 Ames, IA 50010  
 Information Phone: 888-663-6980  
 Information Phone: 515-663-6980  
 Emergency Phone: Chemtrec (800) 424-9300

### Hazardous Material Information System:

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	X

## Section 2. Hazard Identification

### Ingredients

### Occupational Exposure Limits

Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
Iron Oxide*	1309-37-1	10 mg/m <sup>3</sup> (iron oxide fume)	5 mg/m <sup>3</sup> (iron oxide dust & fume)	>1.0%

\* Exposure levels for iron oxide are not applicable when product is in liquid form.

\*\*\*No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present\*\*\*

**Emergency Overview:** May cause respiratory tract, eye, and skin irritation.

### Potential Acute Health Effects:

- Eyes:* Short term harmful effects are not expected. However, irritation may develop causing itching and redness.
- Skin:* Short term harmful effects are not expected. However, mild skin irritation may develop causing itching and redness.
- Inhalation:* Short term harmful effects are not expected. However, exposure to vapors or dust may cause coughing or wheezing when inhaled.
- Ingestion:* Not an intended route of exposure. Short term harmful effects are not expected. However, may upset the gastrointestinal tract and cause diarrhea.

## Section 3. Composition/Information on Ingredients

The composition of this material is a trade secret. Contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

## Section 4. First Aid Measures

- Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Prolonged or repeated contact may result in mechanical irritation.
- Skin Contact:** Wash with soap and water.
- Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
- Ingestion:** Seek medical attention.

## Section 5. Fire Fighting Measures

<b>Flash Point:</b>	> 212° F
<b>Flammability of Product:</b>	Not a fire or explosion hazard when stored under normal conditions.
<b>Fire Fighting Media:</b>	Foam, alcohol foam, CO2, dry chemical, water fog
<b>Protective Clothing:</b>	This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard. No special procedures required besides standard fire fighting procedures.

## Section 6. Accidental Release Measures

<b>Clean-Up Procedures:</b>	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled and closed container. Dispose of collected material according to federal, state, and local regulations.
<b>Spills and Leaks:</b>	Contain the spill or leak to prevent a discharges to surface streams or storm sewers. This material is a concentrated dye/pigment. Small quantities in contaminated water solutions will color large volumes.

## Section 7. Handling and Storage

<b>Handling:</b>	Avoid breathing fumes. General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment. Do not freeze. Protect eyes to prevent contact. Avoid prolong or repeated exposure to skin.
<b>Storage:</b>	Keep container dry. Keep containers sealed until ready for use.

## Section 8. Exposure Control/Personal Protection

<b>Engineering controls:</b>	General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment
<b>Personal Protection:</b>	
<i>Eyes:</i>	Wear safety glasses with side shields. Wear additional eye protection such as chemical goggles or face shield if splashing or spraying hazard exists. Have an eye wash station available.
<i>Body:</i>	To prevent skin contact use coveralls, apron, boots, or lab coat.
<i>Hands:</i>	Avoid skin contact by using chemically resistant gloves.
<i>Respiratory:</i>	No respiratory protection required under normal conditions of use. Use local exhaust to control excessive vapors/mists. If excessive vapors or mists are persist use appropriate NIOSH/MSHA approved organic vapor/mist respirator.
<b>Other:</b>	Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure.

## Section 9. Physical and Chemical Properties

<b>Odor</b>	Mild odor	<b>Vapor Density</b>	Heavier than air
<b>Color</b>	Red	<b>Evaporation Rate</b>	Slower than ether
<b>Physical state</b>	Thick Liquid	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.7-2.2 g/mL
<b>pH</b>	9-10	<b>Solubility</b>	Dispersible
<b>Melting/Freezing Point</b>	NA		

## Section 10. Stability and Reactivity

**Chemical Stability:** This material is chemically stable under normal and storage and handling conditions.

**Hazardous Decomposition:** When involved in a fire, burning may evolve noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides, acetic acid, or other toxic compounds depending on the chemical composition and combustion conditions. However, all of the water must be driven off first for this to occur.

**Hazardous Polymerization:** Is not known to occur.

**Incompatibility (Materials to Avoid):** Long term storage in direct contact with reactive metals such as aluminum, zinc, copper, nickel, magnesium, etc. Other materials to avoid include strong oxidizing agents.

## Section 11. Toxicological Information

**Chronic Toxicity:** None known

**Carcinogenic Effects:** None known

**Mutagenic Effects:** None known

**Teratogenic Effects:** None known

**Developmental Toxicity:** None known

**Acute Effects on Humans:** May cause skin, eye, and respiratory irritation.

**Sensitization:** Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause respiratory tract and lung sensitization.

**Carcinogenic Effects:** This material is not known to cause cancer in animals or humans.

**Existing Medical Conditions Aggravated By Exposure:** May provoke asthmatic response in persons with asthma who are sensitive to airway irritants

## Section 12. Ecological Information

**Ecotoxicity:** No data available, however the material is not expected to have any deleterious toxic effect.

**Environmental Fate:** No data available regarding the environmental fate or biodegradation.

## Section 13. Disposal Considerations

**EPA Waste Number:** Non-hazardous waste

**Treatment:** Dispose of according to all federal, state, local, and provincial environmental regulations.

## Section 14. Transport Information

**D.O.T. Classification:** Not regulated

**IMO/IMDG** Not regulated

**Classification:**

**IATA Classification:** Not regulated

## Section 15. Regulatory Information

### Hazardous Material Information System:

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	X

### US Federal Regulations:

**Product Information:** This product is not considered hazardous.

### SARA 311/312:

*Acute:* No  
*Chronic:* No  
*Fire:* No  
*Pressure:* No  
*Reactive:* No

**SARA 313:** No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present

### Regulatory Listings

United States	(TSCA):	Listed
Canada	(CEPA):	Unknown
Europe	(EINECS):	Unknown
Australia	(AICS):	Unknown
Japan	(MITI):	Unknown
Korea	(ECL):	Unknown
China	(NEPA):	Unknown

## Section 16. Other Information

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