

Section 1. Product and Company Identification

Product Name:
VIBRANT RED

Hazardous Material Information System:

Health	1
Fire Hazard	0
Physical Hazard	0
Personal Protection	X

Product Code: MMFG/VIBRANT RED
 Chemical Family: Pigment Dispersion
 Formula.....: Proprietary

Hazardous Material Information System:
 Effective Date: May 26, 2010

Manufacturer Information: Nature's Reflections
 699 SE Battle Drive
 Madison, FL 32340
 Telephone: 850.973.4148

Section 2. Hazard Identification

Ingredients **Occupational Exposure Limits**

Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
Iron Oxide Red*	1309-37-1	10 mg/m3 (iron oxide fume)	5mg/m3 (Iron Oxide dust & fume)	>50%
Water	7732-18-5	Not Applicable	Not Applicable	>10%
Polymer	Proprietary	Not Applicable	Not Applicable	>5%
Dispersant	Proprietary	Not Applicable	Not Applicable	1-5%

* 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

Flash Point: > 212° F

Flammability of

Product: Not a fire or explosion hazard when stored under normal conditions

Fire Fighting Media: Foam, alcohol foam, CO₂, dry chemical, water fog

Protective Clothing: 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

Clean-Up Collect spilled material with an inert absorbent such as sand or vermiculite.

Procedures: Placed in properly labeled and closed container. Dispose of collected material according to federal, state, and local regulations.

Spills and Leaks: 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

Handling: 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 prolonged or repeated exposure to skin.

Storage: Keep container dry. Keep containers sealed until ready for use.

Section 8. Exposure Control/Personal Protection

Engineering controls: 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

Personal Protection:

Eyes: 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.

Body: To prevent skin contact use coveralls, apron, boots, or lab coat.

Hands: Avoid skin contact by using chemically resistant gloves.

Respiratory: No respiratory protection required under normal conditions of use. Use local exhaust to control excessive vapors/mists. If excessive vapors or mists are present use appropriate NIOSH/MSHA approved organic vapor/mist respirator.

Other: 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

Odor	Mild Odor	Vapor Density	Heavier than air
Color	Red	Evaporation Rate	Slower than ether
Physical State	Thick Liquid	Specific Gravity (H ₂ O = 1)	1.7 – 2.2 g/mL
pH	8-10	Solubility	Dispersible
Melting/Freezing Point	N/A		

Section 10. Stability and Reactivity

Chemical Stability: This material is chemically stable under normal 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 Classification: Not regulated
IATA Classification: Not regulated

Section 15. Regulatory Information

Hazardous Material Information System:

Health	1
Fire Hazard	0
Physical Hazard	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

Section 16. Other Information

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