

SECTION 1: Identification

1.1. Identification

Product Name	Iron oxide, Red (CL)
Cas No	1309-37-1

1.2. Recommended use and restrictions on use

Recommended Use	Colorants (pigments), inorganic.
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1.3. Supplier

Camden-Grey Essential Oils, Inc.
3558 Plover Ave. #6
Naples, FL 34117
Phone 1-800-643-1439
www.camdengrey.com

1.4. Emergency telephone number

Emergency number: Chemtrec -1.800.424.9300/ 1.703.527.4887

SECTION 2: Hazard(s) identification

Not a hazardous substance.

SECTION 3: Composition/information on ingredients

3.1. Substances

Synonyms	Ferric Oxide
Formula	Fe ₂ O ₃
Molecular weight	159.59 g/mol
CAS No.	1309-37-1
EC No.	215-168-2

Hazardous components	Classification	Concentration
Component Diiron Trioxide		<=100%

SECTION 4: First-aid measures

General advice:	Move out of dangerous areas
Inhalation:	Move person into fresh air. If not breathing, give artificial respiration.
Skin Contact:	Wash off with soap and plenty of water
Eye Contact:	Flush eyes with water as a precaution
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects both acute and delayed

The most important known symptoms and effects are described in the labeling (see Section 2.2 and/or in Section XI).

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire-fighting measures

Extinguishing Media Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

Special Hazards arising from the substances or mixture

No data available.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further Information

No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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Avoid dust formation, avoid breathing vapors, mist, or gas. For personal protection see Section VIII.

Environmental precautions

No special environmental precautions required

Methods and Material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference for other sections

See Section XIII.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry and well-ventilated place. Keep in a dry place

Storage class (TRGS 510) Non Combustible Solids

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters

	CAS No.	Value	Control parameters	Basis
Diiron trioxide	1309-37-1	TWA	5 mg/m3	USA ACGIH TLV
	Remarks	Pneumoconiosis Not classified as a human carcinogen		
		TWA	5.000000 mg/m3	USA ACGIH TLV
		Pneumoconiosis Not classified as a human carcinogen		
		TWA	15.000000 mg/m3	USA OEL OSHA Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA OEL OSHA Table Z-1 Limits for Air Contaminants
		TWA	10.000000 mg/m3	USA OEL OSHA Table Z-1 Limits for Air Contaminants
		See Appendix D – Substances with No Established RELs		
		TWA	10.000000 mg/m3	USA NIOSH Recommended Exposure Limits
		TWA	15.000000 mg/m3	USA OEL OSHA Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA OEL OSHA Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA OEL OSHA Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA OEL OSHA Table Z-1 Limits for Air Contaminants
		See Appendix D – Substances with No Established RELs		
		TWA	5mg/m3	USA NIOSH Recommended Exposure Limits
		See Appendix D – Substances with No Established RELs		
		PEL	10mg/m3	California permissible exposure limits for chemical contamination (Title 8, Article 107)
		PEL	5mg/m3	California permissible exposure limits for chemical contamination (Title 8, Article 107)
		PEL	5mg/m3	California permissible exposure limits for chemical contamination (Title 8, Article 107)

Exposure Controls

Appropriate Engineering Controls

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General industrial hygiene practice.

Personal protective equipment

Eye/Face Protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full Contact:

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min.
Material tested: Dermatrill®

Splash Contact:

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min.
Material tested: Dermatrill®

Body Protection:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or Type PA (EN 143) dust masks. Use respirators and components tested and approved under the appropriate government standards.

Control of environmental exposure

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Form: powder
Odor	No data available
Odor threshold	No data available
p-H	No data available
Melting point/freezing point	Melting point/range: 1,5380 C (2,8000 F)
Initial Boiling point	No data available
Flash point	Not applicable.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	5.5 g/m ³
Water Solubility	Insoluble.
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10: Stability and reactivity

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions

Possibility of hazardous reactions

No data available

Conditions to avoid

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No data available

Incompatible materials

Chloroformates, Peroxides, Strong acids

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – iron oxides Other decomposition products – No data available
In the event of fire – see Section V.

SECTION 11: Toxicological information

Acute toxicity

LD50 Oral – Rat - > 10,000 m/kg

Dermal: No data available

Skin corrosion/irritation Skin – Rabbit

Results: No skin irritation

(OECD Test Guideline 405)

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

Carcinogenicity - Rat - Subcutaneous

Tumorigenic. Equivocal tumorigenic agent by RTECS criteria. Tumorigenic Tumors at site of application.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IA RC, ACGIH, NTP or EPA classification

IARC:	3 – Group 3: Not classifiable as to its carcinogenicity to humans (Diiron Trioxide)
IARC:	No component of this product presents a levels greater than or equal to 0.1% is identified as probable, possible or confirmation human carcinogen by IARC.
NTP:	No component of this product presents a levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.
OSHA:	No component of this product presents a levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: NO7400000

Long term inhalation exposure to iron (oxide fume or dust) can cause siderosis. Siderosis is considered to be a benign pneumoconiosis and does not normally cause significant physiologic, impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and VPvB assessment

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PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product

Other surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professions waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT: Not regulated as dangerous goods.
IATA: Not regulated as dangerous goods.
IMDG: Not regulated as dangerous goods.

SECTION 15: Regulatory information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA, Title III, Section 313

SARA 311/312 Hazards Acute Health Hazard

Massachusetts Right to Know Components

	CAS No.	Revision Date
Diiron trioxide	130-037-1	2007-03-01

Pennsylvania Right to Know Components

	CAS No.	Revision Date
Diiron trioxide	130-037-1	2007-03-01

New Jersey Right to Know Components

	CAS No.	Revision Date
Diiron trioxide	130-037-1	2007-03-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

DISCLAIMER: The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness and accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Camden-Grey Essential Oils, Inc.'s control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising out of the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies (e.g. DOT, EPA, FDA) may have specific regulations concerning the transportation, handling, storage, use or disposal of this product, which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.