

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Ferric Ox	ide Red
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CAS number 1309-37-1

Synonyms Iron (III) Oxide; Iron Sesquioxide

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

# **1.3** Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.	
Telephone	512-668-9918	
Fax	512-886-4008	

# **1.4 Emergency telephone**

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

# **2.2 GHS Label elements, including precautionary statements** None required.

# **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS** None identified.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Iron(III) oxide	Ferric oxide; Iron sesquioxide	1309-37-1	<=100%

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

lf inhaled	Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	Do NOT induce vomiting. Obtain medical attention.

- **4.2 Most important symptoms and effects, both acute and delayed** No information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media No information available.

**Unsuitable extinguishing media** No information available.

# 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 5.4 Further information

Flash PointNo information available.

Autoignition Temperature No information available.

**Explosion limits** 

No information available.		
No information available.		
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# **SECTION 6: Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Use personal protective equipment as required.

# 6.2 Environmental precautions

See Section 12 for additional Ecological Information.

- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel into suitable containers for disposal. Avoid dust formation.
- 6.4 Reference to other sections None.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Ensure adequate ventilation. Wear personal protective equipment/face protection.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep in a dry, cool, and well-ventilated place. Keep container tightly closed.

#### Incompatibilities

Strong oxidizing agents.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Iron oxide	(Vacated) TWA	10 mg/m3
	(Vacated) TWA	5 mg/m3
	TWA	10 mg/m3
	TWA	15 mg/m3
	TWA	5 mg/m3

# **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Iron oxide	TWA	5 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
Iron oxide	IDLH	2500 mg/m3
	TWA	5 mg/m3

#### **Biological occupational exposure limits**

No information available.

# 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Control of environmental exposure

No information available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	Red brown
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	1565 °C
Boiling Point/Range	No information available
Evaporation Rate	Not applicable
Flammability (solid)	No information available
Flammability or explosive limit	No data available
Upper	
Lower	
Vapor Pressure	1 mmHg @ 20 °C
Vapor Density	Not applicable
Density	5.24 (H2O=1)
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	Not applicable
Molecular Formula	Fe2O3
Molecular Weight	159.6922 g/mol
VOC Content(%)	No information available
Oxidizing properties	No information available

# 9.2 Other safety information

No information available.

#### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No information available.
- **10.2 Chemical stability** Stable under normal conditions.
- **10.3 Possibility of hazardous reactions** None under normal processing.
- **10.4 Conditions to avoid** Incompatible products.
- **10.5** Incompatible materials Strong oxidizing agents.
- **10.6 Hazardous decomposition products** None under normal use conditions.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

# **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron oxide	>10000 mg/kg (Rat)	-	-

#### Skin corrosion/irritation

No information available.

# Serious eye damage/eye irritation

No information available.

#### Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
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Iron oxide	1309-37-1 Not liste	d Not listed	Not listed	Not listed	Not listed	
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#### Specific target organ toxicity - single exposure

None known.

# Specific target organ toxicity - repeated exposure

None known.

#### **Reproductive toxicity**

No information available.

#### **Chronic effects**

No information available.

# **11.2 Additional Information**

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Do not empty into drains.

Product		Species	Test Results
Iron oxide	LC50	Danio rerio	>50000 mg/L/96h
	EC50	Water Flea	>100 mg/L/48h

# 12.2 Persistence and degradability

No information available.

#### 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

No information available.

# **12.5 Results of PBT and vPvB assessment** No information available.

# 12.6 Endocrine disrupting properties

No information available.

# 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information			
DOT (US)	Not regulated.		
IMDG	Not regulated.		
ΙΑΤΑ	Not regulated.		
	SECTION 15: Regulatory information		
US federal regul	ations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.		
TSCA	A Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable.		
CER	CLA Hazardous Substance List (40 CFR 302.4) Not regulated.		
SAR	A 304 Emergency release notification Not regulated.		
OSH	A Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.		
•	ndments and Reauthorization Act of 1986 (SARA) A 302 Extremely hazardous substance Not listed.		
SAR	A 311/312 Hazardous See Section 2 for more information.		
	A 313 (TRI reporting) Not regulated.		
Other federal rec Clear	gulations n Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.		
Clear	Air Act (CAA) Section 112(r) Accidental Belease Provention (40 CEP 68 130)		

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Clean Water Act (CWA)

Not regulated.

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

#### **US state regulations**

US. Massachusetts RTK - Substance List

Listed, Iron oxide (CAS #1309-37-1).

US. New Jersey Worker and Community Right-to-Know Act Listed, Iron oxide (CAS #1309-37-1).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Iron oxide (CAS #1309-37-1).

# **California Proposition 65**

Not listed.

# **SECTION 16: Other information**

Issue date: 01/23/2024 Revision: 11/04/2024

# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.