

## **SAFETY DATA SHEET**

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

## 1.1 Product identifiers

Product name Iron Metal Filings

CAS number 7439-89-6

Synonyms N/A

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)

Flammable Solids Catgeory 2

## 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Flammable solid.

Precautionary statements

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Use explosion-

proof electrical/ventilating/lighting equipment. Wear protective gloves/protective clothing/eye protection/face protection.

Fire: In case of fire, use CO2, dry chemical, or foam for extinction. Fight fire

with normal precautions from a reasonable distance.

Storage: Store locked up.

## 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	-	7439-89-6	>95%	

#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If breathing is difficult, give oxygen. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention if symptoms occur.

**In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**If swallowed** Do NOT induce vomiting. Get medical attention.

## 4.2 Most important symptoms and effects, both acute and delayed

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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** Dry sand; approved class D extinguishers.

**Unsuitable extinguishing media**Do not use halogenated extinguishing agents or

foam; Water; Carbon dioxide (CO2); Dry chemical.

#### 5.2 Specific hazards arising from the substance or mixture

Flammable. Risk of ignition. Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products: Hydrogen.

## 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 Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
1	2	1	N/A

#### **SECTION 6: Accidental release measures**

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## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Remove all sources of ignition. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing.

## 6.2 Environmental precautions

Avoid release to the environment.

## 6.3 Methods and materials for containment and cleaning up

Remove all sources of ignition. Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4 Reference to other sections

See Section 12 for additional Ecological Information.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Keep away from open flames, hot surfaces, and sources of ignition. Avoid contact with skin, eyes, or clothing. Avoid ingestion and inhalation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, sparks, and flame. Flammables area.

## Incompatibilities

Strong oxidizing agents. Acids. Halogens. Halogenated agents.

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

#### 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### 8.2 Exposure controls

#### Appropriate engineering controls

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Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.

#### 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

Solid **Physical State** Dark grey **Appearance** Odorless Odor

No information available Odor Threshold No information available pН

1535 °C / 2795 °F Melting Point/Range 3000 °C / 5432 °F Boiling Point/Range

Negligible **Evaporation Rate** 

No information available Flammability (solid) No data available

Flammability or explosive limit

Upper

Lower

No information available Vapor Pressure No information available Vapor Density No information available Density Insoluble in water Solubility

Laballey.com Page 5 of 10 Partition coefficient: No data available

n-octanol/water

Autoignition Temp
Decomposition Temp
Viscosity
No information available
No information available
No information available

Molecular Formula Fe

Molecular Weight 55.847 g/mol

VOC Content(%)

Oxidizing properties

No information available

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

Moisture sensitive.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Heat, flames, and sparks. Exposure to moist air or water.

## 10.5 Incompatible materials

Strong oxidizing agents, Acids, Halogens, Halogenated agents.

## 10.6 Hazardous decomposition products

Hydrogen.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Product Information, Component Information**

**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron	7500 mg/kg (Rat)	-	-

#### Skin corrosion/irritation

No information available.

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## 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
Iron	7439-89-6	Not listed				

## 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. See actual entry in RTECS for complete information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

No information available.

## 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.

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## 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)

UN-No UN3089

Proper Shipping Name Metal powder, flammable, n.o.s.

Hazard Class 4.1 Packing Group III

**IMDG** 

UN-No UN3089

Proper Shipping Name Metal powder, flammable, n.o.s.

Hazard Class 4.1 Packing Group III

**IATA** 

UN-No UN3089

Proper Shipping Name Metal powder, flammable, n.o.s.

Hazard Class 4.1 Packing Group III

## **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

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## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **SARA 302 Extremely hazardous substance**

Not listed.

#### SARA 311/312 Hazardous

See Section 2 for more information.

## SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

## Safe Drinking Water Act

Not regulated.

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

Not listed.

#### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Not listed.

## **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

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

Not listed.

#### **California Proposition 65**

Not listed.

## **SECTION 16: Other information**

Issue date: 10/28/2024

#### **SECTION 17: Disclaimer**

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