SAFETY DATA SHEET

Version: 5.0 Date: August 2026

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878, and United States Regulation 29 CFR 1910

Section 1: Identification		
1.1	Product Identifier Product Name	**Sulphasorb Fe**
	Product Code	SFe
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified Use(s)	Gas-phase air filtration
	Uses Advised Against	Do not use for applications other than those specified.
1.3	Company Identification Details of the supplier of the safety data sheet	**Pure Air Filtration, LLC** 6050 Peachtree Parkway Suite 240-187 Atlanta, GA 30092 USA
	Telephone	+1 (678) 935-1431; Office Hours are Monday through Friday, 8:00AM to 5:00PM Eastern Standard Time
	Fax	+1 (678) 935-0648
	E-Mail	info@pureairfiltration.com
1.4	Emergency telephone number	**VelocityEHS** 1-800-255-3924 (United States, Canada, Puerto Rico, U.S. Virgin Islands) +1-813-248-0585 (International, collect calls are accepted) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-099-0731 (Mexico) *The line is available 24 hours; in the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.*
	Language(s) spoken:	English

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Section 2: Hazard(s) Identification

2.1
Classification of the substance or mixture GHS-US and Regulation (EC) No. 1272/2008 (CLP) and most important Hazards

This material is not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP) or the OSHA Hazard Communication Standard (29 CFR 1910.1200).

2.2

Label Element:	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name:	Sulphasorb Fe
Contains:	Iron Oxide

Hazard Pictogram(s) None

Signal Word(s) None
Hazard Statements None

Precautionary Statements: P260: Do not breathe dust.
P264: Wash face, hands, and exposed skin thoroughly after handling
P280: Wear protective gloves and eye/face protection.

Supplemental Information
Other Hazards None known.

2.3
Hazards not otherwise classified (HNOC) or not covered by GHS
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Dust generated from handling, crushing, or abrasion of pellets may cause mechanical irritation to the eyes and respiratory tract.

Section 3: Composition/ Information on Ingredients

Chemical Name	%W/W	CAS No.	EC No.	Hazard Statement(s)
Ferric Oxide (Iron Oxide)	30 to 90	1332-37-2	215-570-8	Not Classified

Note: For full text of H phrases see Section 16.

Section 4: First-Aid Measures

4.1
Description of first aid measures

General advice:
Move affected person away from exposure. Seek medical attention if irritation persists or symptoms develop.

Self-protection of the first aider: Use personal protective equipment as required. Wear suitable protective clothing and gloves. Avoid contact with skin, eyes, or clothing. Do not breathe dust. Do not ingest. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation.

IF ON SKIN (or hair): Wash skin with soap and plenty of water. Remove contaminated clothing and wash before reuse. If irritation develops and persists, obtain medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.

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IF INHALED: Move person to fresh air. If respiratory irritation, coughing, or discomfort occurs and persists, obtain medical attention.

IF SWALLOWED: Rinse mouth with water. Do not give anything by mouth to an unconscious person. If large quantities are swallowed or discomfort occurs, seek medical attention.

4.2
Most important symptoms and effects, both acute and delayed.
Dust generated during handling, crushing, or abrasion may cause mechanical irritation of the eyes, skin, and respiratory tract.

4.3
Indication of any immediate medical attention and special treatment needed.
Treat symptomatically. No specific antidote known.
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Section 5: Fire-Fighting Measures

5.1
Suitable extinguishing media
As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam, or water spray.

Unsuitable extinguishing media
Do not use high-pressure water jets that may scatter dust. None other known.

5.2
Special Hazards arising from the substance or mixture
The product is not combustible and does not present a fire or explosion hazard under normal conditions.
Thermal decomposition may generate metal oxide fumes and other irritating combustion products.
May decompose if heated. Not flammable but dust may support combustion.

5.3
Advice for firefighters
Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Do not allow run-off from fire-fighting to enter drains or water courses. All contaminated wastewater must be processed in an industrial or municipal wastewater treatment plant.

Section 6: Accidental Release

6.1
Personal precautions, Protective Equipment, and Emergency Procedures
Avoid dust generation. Ensure adequate ventilation. Wear appropriate personal protective equipment, including gloves, safety glasses, and respiratory protection where dust exposure may occur. Avoid breathing dust and avoid contact with eyes.

Small spillages
Avoid exposure. Clean up spill immediately.

6.2
Environmental precautions
Prevent large quantities from entering drains, waterways, or soil. Collect spilled material for proper disposal.

6.3
Methods and material for containment and cleaning up
Sweep up or vacuum spilled material and place in suitable containers for recovery or disposal. Avoid generating dust during cleanup. If necessary, lightly dampen material to minimize airborne dust.

Small Spillages
Sweep or shovel material into suitable containers for disposal.

6.4
Reference to other sections
See Section 8 and 13.

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Section 7: Handling and Storage

7.1
Precautions for safe handling
Avoid generating dust during handling. Ensure adequate ventilation in areas where dust may be generated. Wear appropriate personal protective equipment as described in Section 8. Avoid breathing dust and avoid contact with eyes. Do not eat, drink, or smoke while using this product. Wash hands thoroughly after handling.

7.2
Conditions for safe storage, including any incompatibilities.
Store in a cool, dry, and well-ventilated area. Keep containers tightly closed when not in use. Protect from moisture and physical damage. Store away from strong acids and strong oxidizing agents. No special temperature requirements under normal storage conditions.

7.3
Specific end use(s)
See Section 1.2.

Section 8: Exposure Controls / Personal Protection

8.1
Control Parameters Related to Substance –Iron oxide/ Ferric oxide
OSHA PEL (Iron oxide fume): 10 mg/m³ TWA.
ACGIH TLV (2024, as Fe): 5 mg/m³ TWA respirable.

Biological Limit Value:
Not established.

PNECs and DNELs
Not Applicable

8.2
Exposure Controls
Appropriate Engineering Controls
Provide adequate ventilation during handling and processing. Where dust is generated, use local exhaust ventilation or other engineering controls to maintain airborne dust concentrations below applicable occupational exposure limits. Eyewash facilities should be available where appropriate.

8.3
Environmental Exposure Controls
Dispose of waste in accordance with local regulations. Avoid uncontrolled release of large quantities to the environment.

8.4
Personal Protection Equipment (PPE)
Use personal protective equipment as required. Wear suitable protective clothing, gloves, and eye/face protection. Keep good industrial hygiene. Do not breathe dustDo not eat, drink, or smoke at the workplace. Normal working clothing is sufficient.

Eye / Face Protection	Hand & Skin Protection	Respiratory Protection
Use eye protection according to EN 166, designed to protect against dust. **For Small Quantities:** Not Normally Required	Work gloves if needed. Wear normal work clothing to prevent exposure to the skin.	Not normally required. If occupational exposure limits are exceeded or dust concentration become excessive, use appropriate respiratory protection.

Thermal hazards
Ferric oxide fume

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Section 9: Physical and Chemical Properties

9.1
Basic physical and chemical properties

Physical state:	Solid cylindrical pellets
Color:	Brown
Odor threshold:	Not applicable -material is odorless
Melting point/melting range:	Not applicable
Boiling point/boiling range:	Not applicable
Evaporation rate:	Not applicable -solid granular sorbent.
Flammability:	Not flammable
Lower and upper explosion limits:	Not explosive.
Flash point:	Not applicable
Auto ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	Not available
Kinematic viscosity:	Not applicable
Solubility:	Partially soluble in water
Partition coefficient n-octanol/water (log value):	Not applicable
Vapor pressure:	Not applicable -solid
Vapor density:	Not applicable
Bulk Density:	~ 60 lb/ft^3, 960 kg/m^3
Relative density:	Not available
Particle Characteristics:	Median particle diameter 5mm

9.2
Other Information
None known.

Section 10: Stability and Reactivity

10.1
Reactivity
Stable under normal conditions of use.

10.2
Chemical stability
Stable under recommended storage and handling conditions.

10.3
Possibility of hazardous reactions
Hazardous polymerization will not occur. Contact with strong acids or strong oxidizing agents should be avoided.

10.4
Conditions to avoid
Avoid excessive moisture and conditions that may generate excessive dust.
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10.5
Incompatible materials
Strong acids. Strong oxidizing agents.

10.6
Hazardous decomposition products
No hazardous decomposition products are expected under normal conditions of storage and use. Thermal decomposition may produce metal oxides and other irritating fumes.

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Section 11: Toxicological Information

11.1
Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity – Ingestion:	Based on available data, the classification criteria are not met.
Acute toxicity – Inhalation:	Based on available data, the classification criteria are not met.
Acute toxicity – Dermal:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met. Dust may cause mechanical skin irritation.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met. Dust may cause mechanical eye irritation.
Respiratory or skin sensitization:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT – single exposure:	Based on available data, the classification criteria are not met.
STOT – repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Not relevant -solid pellets

11.2
Carcinogen listing status
Iron oxide is not classified as a carcinogen under Regulation (EC) No. 1272/2008. Available data do not indicate that the product presents a carcinogenic hazard under normal conditions of use.

11.3
Information on other hazards

Endocrine disrupting properties:	No substances identified as having endocrine-disrupting properties.
Other information:	Dust generated from crushing, abrasion, or handling may cause mechanical irritation of the eyes, skin, and respiratory tract.

Section 12: Ecological Information

12.1
Toxicity
No data is available for the mixture. Mixture is not soluble in water.

12.2
Persistence and degradability
No data is available for the mixture. Ferric oxide testing can be waived because the substance is an inorganic compound.

12.3
Bioaccumulation
No data is available for the mixture. Ferric oxide testing can be waived because the substance is an inorganic compound.

12.4
Mobility in soil
No data is available for the mixture. Ferric oxide testing can be waived because the substance is an inorganic compound.

12.5
Results of PBT and vPvB Assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6
Endocrine Disrupting Properties
No substances identified as having endocrine-disrupting properties.

12.7
Other Adverse Effects
None known.

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Section 13: Disposal Considerations

13.1
Waste Disposal Methods
Dispose of waste material in accordance with applicable national, regional, and local regulations. The disposal method for spent media should be determined based on the contaminants absorbed during use.

Section 14: Transport Information

14.1
Transportation Information

	ADR/RID/DOT	IMDG	IATA/ICAO
UN Number or ID Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	Not assigned	Not assigned	Not assigned
Transport Hazard Class(es)	None	None	None
Packing Group	None	None	None
Environmental Hazards	No	No	No
Special Precautions for User	None known	None known	None known

14.2
Maritime transport in bulk according to IMO instruments
No information available.

14.3
Additional information
Not applicable.

Section 15: Regulatory Information

15.1
Safety, health and environmental regulations/legislation specific for Ferric Oxide only.

National Regulations
OSHA Regulations: Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-2, Z-3): Ferric Oxide is listed.
TSCA:The components of this product are listed on or exempt from the TSCA Inventory.

State Regulations
Ferric Oxide as a whole is not listed in any regulations.
California Prop. 65: Ferric Oxide does not contain chemicals which is known to the State of California to cause cancer or reproductive toxicity.

EU Regulations
Authorizations and/or Restrictions on Use
Not restricted for the intended use(s) of the product.

15.2
Chemical Safety Assessment
No chemical safety assessment has been carried out for the material.

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Section 16: Other Information

The following sections contain revisions or new statements: Updated substance / mixture classification. New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References: Existing Safety Data Sheet (SDS) Substance with harmonized classification and labelling according to Regulation (EC) No. 1272/2008, Annex VI. Existing ECHA registration for Ferric Oxide (CAS No. 1309-37-1)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878.

Date of last revision: 2026-08-27

16.1
Full list of Hazard Classification and H Statements
None.

16.2
LEGEND for acronyms used in this SDS / MSDS

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CoRAP	Community Rolling Action Plan
DNEL	Derived no effect level
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
NMFC	National Motor Freight Classification
NIOSH	National Institute for Occupational Safety and Health
OEL	Occupational exposure limits
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
PNOR	Particulates Not Otherwise Regulated
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	Regulations concerning the international railway transport of dangerous goods STEL Short term exposure limit
RoC	Report on Carcinogens
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
vPvB	very Persistent and very bioaccumulative.

Training advice:
Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers
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