

SAFETY DATA SHEET

Version:3.0 Date:April2024

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 PeachtreeParkway Suite 240-187 Atlanta, GA 30092 USA PureAir Filtration BV Tijnmuiden 79 1046 AK Amsterdam, The Netherlands
	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) <i>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.</i>
	Language(s) spoken:	English

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

Mixture itself in solid form causes little irritation, but if crushed or handled extensively, dust may evolve which can cause irritation to eyes and respiratory tract. Adding water can cause irritation to skin.

2.2

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

Hazard Pictogram(s)



Signal Word(s)

Warning

Hazard Statements

Eye Irrit. 2; H319 + H320
Skin Irrit. 2; H315
Resp Irrit.; H335

Precautionary Statements:

P235+P410 - Keep cool. Protect from sunlight.
P260: Do not breathe dust.
P264: Wash face, hands, and exposed skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves and eye/face protection.
P303+P361+P353: IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a doctor.
P362: Take off contaminated clothing and wash before reuse.

Supplemental Information Other Hazards

Not applicable
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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.
If crushed or handled extensively, dust may evolve which can cause irritation to eyes and respiratory tract.

*NOTE: The Hazard Classification listed in this section refers to the chemical at a pure concentration. It has been determined that the remaining ingredient(s) of this component/product are NOT CLASSIFIED AS HAZARDOUS CHEMICALS due to their physical and/or chemical nature and/or concentration in solution, in accordance with California and Federal OSHA regulations (Federal Register 29CFR 1910.1200), and The Chemicals (Hazard Information and Packaging for Supply) Regulations (European Community).

Section 3: Composition/ Information on Ingredients

Chemical Name	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Ferric Oxide (Iron Oxide)	30 to 85	1309-37-1	215-168-2	NA	Eye Irrit. 2B; H319+H320 Skin Irrit. 2; H315 Resp Irrit.; H335

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

Section 4: First-Aid Measures

4.1

Description of first aid measures

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.

Self-protection of the firstaider:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. Call a doctor and/or poison control center.

IF IN EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. After rinsing affected eyes must be seen by an ophthalmologist. Call a doctor and/or poison control center.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor and/or poison control center.

IF SWALLOWED: Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a doctor and poison control center.

4.2

Most important symptoms and effects, both acute and delayed.

Can cause skin and eye irritation.

4.3

Indication of any immediate medical attention and special treatment needed.

Notes to a physician: Treat symptomatically. IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist.

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. Alcohol resistant foams (ATC type) are preferred.

Unsuitable extinguishing media

Do not use water jets. Direct water jet may spread the fire.

5.2

Special Hazards arising from the substance or mixture

May form explosive dust/air mixtures. May decompose if heated. Not flammable but dust may support combustion.

Oxidizer characteristics

May intensify fire; some substances alone are oxidizers, while the mixture itself is not classified as an oxidizer. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

5.3

Special protective equipment 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

Ensure operatives are trained to minimize exposure. Ensure suitable personal protection during removal of spillages. Use personal protective equipment as required. See Section 8. Wear suitable protective clothing, gloves and eye/face protection. Avoid all contact. Avoid dust formation. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Do not breathe dust. Do not ingest. If swallowed, then seek immediate medical assistance. In case of leakage, eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking.

Small spillages

Avoid exposure. Clean up spill immediately.

Oxidizer characteristics

May intensify fire; some ingredients are oxidizers, even though mixture as a whole is not considered oxidizer. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

6.2

Environmental precautions

Collect spillage. Avoid release to the environment.

6.3

Methods and material for containment and cleaning up

Do not mix with combustible material. Provided it is safe to do so, isolate the source of the leak. Dry sweeping is not recommended. If necessary, light water spray will reduce dust for dry sweeping, but over-wetting may produce very slippery walking surfaces. Transfer to a container for disposal. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of this material and its container as hazardous waste.

Small Spillages

Sweep up spilled substance and remove to safe place. Avoid dust generation. Damp down to avoid dust generation.

6.4

Reference to other sections

See also Section 8 and 13.

Section 7: Handling and Storage

7.1

Precautions for safe handling

Ensure operators are trained to minimize exposures. Use personal protective equipment as required.

See Section 8. Wear suitable protective clothing, gloves, and eye/face protection. Avoid all contact. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Do not eat, drink, or smoke when using this product. Wash hands before breaks and after work.

Oxidizer characteristics

Do not store near combustible materials. Do not mix with combustible material. May intensify fire; some ingredients are oxidizers, even though mixture as a whole is not considered oxidizer.

7.2

Conditions for safe storage, including any incompatibilities.

Store away from strong acids or calcium hypochlorite. Do not store near combustible materials.

Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation.

Storage temperature

Keep only in the original container/package in a cool well-ventilated place away from heat and ignition sources. Should be stored inside, away from rainwater, etc.

Incompatible materials

Protect from moisture or heat. Store away from strong acids or calcium hypochlorite. In powdered form, ferric oxide will react with strong acids to form hydrogen. Ferric Oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion.

7.3

Specific end use(s)

See Section 1.2.

Section 8: Exposure Controls / Personal Protection

8.1

Control Parameters Related to Substance – Ferric Oxide

Occupational Exposure Limits

The following exposure limits are for Ferric Oxide (measured as Iron)

OSHA (PEL): 10 mg/m³ averaged over an 8-hour work shift.

NIOSH: 5 mg/m³ averaged over a 10-hour work shift.

ACGIH: 5 mg/m³ (as the respirable fraction) averaged over an 8-hour work shift.

Biological Limit Value:

None Known

PNECs and DNELs

Not Applicable

8.2

Exposure Controls

Appropriate Engineering Controls

Ensure operators are trained to minimize exposures. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Good hygiene practices and housekeeping measures. A washing facility/water for eye and skin cleaning purposes should be present. Preferably use engineering controls to keep exposures below the OEL or DNEL.

8.3

Environmental Exposure Controls

Prevent release 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 dust. Avoid all contact. Wash hands before breaks and after work. Keep work clothes separately. Take off contaminated clothing and wash before reuse. Do not eat, drink, or smoke at the workplace.

Protective clothing should be selected specifically for the working place, depending on the concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye / Face Protection Use eye protection according to EN 166, designed to protect against dust.	Hand & Skin Protection Wear gloves to EN374 to protect against skin effects from powders.	Respiratory Protection Respiratory protective devices may be necessary if local exhaust ventilation is not adequate.
For Small Quantities: Not Normally Required	Wear suitable coveralls to prevent exposure to the skin.	

Thermal hazards

Ferric oxide fume

Section 9: Physical and Chemical Properties

9.1

Basic physical and chemical properties

Physical state:	Solid cylindrical pellets
Color:	Brown
Odor:	No odor
Melting point/melting range:	N/A
Boiling point/boiling range:	N/A
Flammability:	Not flammable
Lower and upper explosion limits:	Not explosive.
Flash point:	N/A
Auto ignition temperature:	N/A
Decomposition temperature:	N/A
pH:	N/A
Viscosity:	N/A
Solubility:	Not soluble in water
Partition coefficient n -octanol/water(log value):	N/A
Vapor pressure:	N/A
Bulk Density:	~ 60 lb/ft ³ , 960 kg/m ³
Relative vapor density:	N/A
Particle Characteristics:	Median Particle Diameter 5mm

9.2

Other Information

N/A

Section 10: Stability and Reactivity

10.1

Reactivity

Stable under normal conditions.

10.2

Chemical stability

Stable under normal conditions.

10.3

Possibility of hazardous reactions

May occur in contact with strong acids or calcium hypochlorite.

10.4

Conditions to avoid

Protect from moisture, heat sources, open flames, and other ignition sources.

10.5

Incompatible materials

Store away from strong acids or calcium hypochlorite.

10.6

Hazardous decomposition products

Ferric oxide fume.

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 – Skin contact:	Based on available data, the classification criteria are not met.

Skin corrosion/irritation:	Skin. Irrit. H315
Serious eye damage/irritation:	Eye Irrit. H319+H320
Respiratory or skin sensitization:	Resp Irrit.; H335
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 mixture

11.2

Information on other hazards

Endocrine disrupting properties:	No substances identified as having endocrine-disrupting properties.
Other information:	No data available.

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.

Section 13: Disposal Considerations

13.1

Waste Disposal Methods

Waste disposal should be in accordance with existing federal, state, and local environmental control regulations. Avoid release to the environment.

Note: This is for unused product. Used product is a nonhazardous salt.

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 (29CFR 1910.1000, Table Z-1, Z-2, Z-3): Ferric Oxide is listed.

EPA Regulations: Ferric Oxide is not listed.

SARA 311/312 Potential Hazard Categories: Immediate Acute Health Hazard; Delayed Chronic Health Hazard.

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

A chemical safety assessment is not required under REACH.

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.

16.1

Full list of Hazard Classification and H Statements

Eye Irrit. 2B: Eye irritant Category 2B

Skin Irrit. 2: Skin irritant Category 2

Resp Irrit.: Respiratory irritant.

H319: Causes serious eye irritation.

H320: Causes eye irritation.

H315: Causes skin irritation.

H335: May cause respiratory irritation.

16.2

LEGEND for acronyms used in this SDS / MSDS

ADR	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 (CoRAP)
DNEL	Derived no effect level
EC50	Half maximal effective concentration
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	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
OEL	Occupational exposure limits
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods STEL Short term exposure limit
vPvB	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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