

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	Safetysorb
	Product Code	SCM
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

This media is classified as not hazardous according to regulation (EC) 1272/2008 (CLP).

2.2

Label Element:	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name:	Safetysorb
Contains:	Aluminum Oxide, Sodium Thiosulfate, Sodium Hydroxide

Hazard Pictograms(s)



Signal Word(s)

Warning

Hazard Statements

Skin Irrit. 2 H315
Eye Irrit. 2 H319
Resp Irrit. H335

Precautionary Statements

P235 + P410 - Keep cool. Protect from sunlight
P260 - Do not breathe dust
P264 - Wash face, hands and any exposed skin thoroughly after handling
P332+P313- if skin irritation occurs, call doctor
P280: Wear protective gloves and eye/face protection.
P302+P361+P352: IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338+ P337+P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362: Take off contaminated clothing and wash before reuse

Supplemental Information

Not applicable

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.
Adding water can cause irritation to skin.

*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)
Aluminum oxide	75-85	1344-28-1	215-691-6	01-2119529248-35-XXXX	Not Classified
Sodium Thiosulfate	5-15	7772-98-7	231-867-5	01-2119531537-38-XXXX	Not Classified
Sodium Hydroxide	1-5	1310-73-2	215-185-5	01-2119457892-27-XXXX	Skin Corrosion 1B, H314 TOT 3, H335

Section 4: First-Aid Measures

4.1

Description of first aid measures

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.

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 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. See Section 11 for additional Toxicological information.

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 jets may spread the fire.

5.2

Special Hazards arising from the substance or mixture

The material is not combustible. May form explosive dust/air mixtures. May decompose if heated.

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. Keep containers cool by spraying with water if exposed to fire.

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.

6.2

Environmental precautions

Collect spillage. Inform authorities if spill cannot be contained.

6.3

Methods and material for containment and cleaning up

Small Spillages : Sweep up spilled substances and remove to safe place. Avoid dust generation. Damp down to avoid dust generation.

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 split materials, where practicable. Dispose of unused material in a facility permitted for non-hazardous wastes.

6.4

Reference to other sections

See also Section 8, 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.

7.2

Conditions for safe storage, including any incompatibilities.

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. Should be stored inside, away from rainwater, etc.

Incompatible materials

Protect from moisture. Keep away from strong oxidizing substances or strong acids.

7.3

Specific end use(s)

See Section 1.2.

Section 8: Exposure Controls / Personal Protection

8.1

Control Parameters

Related to Substance – Aluminum Oxide

OSHA PEL: 15mg/m³ (8hrTWA) as Total dust; 5 mg/m³ (8hr TWA) as Respirable dust

Ireland HAS (Code of Practice): 10 mg/ m³ (8hr TWA) total inhalable dust; 4 mg/ m³ (8hr TWA) total respirable dust.

Dust, or Particulates, Substance Not Otherwise Specified:

Austria MAK: 10 mg/m³, STEL 2x30 min, Inhalable dust; 5mg/m³, TWA, Inhalable dust

Belgium: 10 mg/m³, TWA Inhalable; 3 mg/m³, TWA Respirable

Canada (Saskatchewan): 10 mg/m³, TWA Inhalable; 3 mg/m³, TWA, Respirable

China: 8 mg/m³, TWA; 10 mg/m³, STEL

France: 10 mg/m³ TWA Inhalable dust; 5 mg/m³, TWA Respirable dust

Germany - TRGS 900: 10 mg/m³, TWA, Inhalable; 3 mg/m³, Respirable fraction

Hong Kong: 10 mg/m³, TWA

Ireland PELs: 10 mg/m³, TWA Total inhalable; 4 mg/m³, TWA Respirable

Italy: 10 mg/m³, TWA Inhalable; 3 mg/m³, TWA Respirable

Japan: 3 mg/m³ TWA Respirable

Malaysia: 10 mg/m³, TWA Inhalable; 3 mg/m³, TWA Respirable

The Netherlands: 3.5 mg/m³, Inhalable

Spain: 10 mg/m³, VLA, Inhalable; 3 mg/m³, VLA, Respirable

Sweden: 10 mg/m³, NGV, Total inhalable; 5 mg/m³, NGV, Respirable

United Kingdom - WEL: 10 mg/m³, TWA, Total Inhalable dust; 4 mg/m³, TWA, Respirable dust

US ACGIH - PNOS: 10 mg/m³, TWA Inhalable; 3 mg/m³, TWA Respirable

US OSHA - PEL: 15 mg/m³, TWA Total dust; 5 mg/m³, TWA Respirable

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)

Individual protection measures, such as personal protective 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.

Wear suitable coveralls to prevent exposure to the skin.

Respiratory Protection

Respiratory protective devices with a particles filter or Dust Mask: NIOSH N95.

For Small Quantities:

Not Normally Required

Section 9: Physical and Chemical Properties

9.1

Basic physical and chemical properties

Physical state:	Solid white spherical pellets
Color:	White
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
Kinematic viscosity:	N/A
Solubility:	Partially soluble in water
Partition coefficient n-octanol/water (log value):	N/A
Vapor pressure:	N/A
Density and/or Relative density:	~ 50 lbs./ft ³ , 800 kg/m ³
Relative vapor density:	N/A
Particle Characteristics:	Median Particle Diameter 4mm

9.2

Other Information

Oxidizing Properties:

The final product is considered to have no oxidizing properties and it should be classified as "not oxidizing" and "Not Division 5.1" following UN Handbook. A test according to UN Handbook 34.4.1 and GHS was performed and confirms this statement.

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 with strong acids or oxidizing agents.

10.4

Conditions to avoid

Protect from moisture and damage. Keep away from strong oxidizer or strong acids.

10.5

Incompatible materials

Strong acids. Strong oxidizing agents.

10.6

Hazardous decomposition products

May form explosive dust/air mixtures.

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. Alumina- Acute Toxicity Estimate Mixture Calculation: LD50 > 5,000 mg/kg bw/day, Acute Tox 4; H302
Acute toxicity – Inhalation	Based on available data, the classification criteria are not met. Alumina Acute Toxicity Estimate Mixture Calculation: LC50 > 20 ml/l
Acute toxicity – Skin contact	Mixture: Based on available data, the classification criteria are not met. Alumina- Acute Toxicity Estimate Mixture Calculation: LD50 > 2,000 mg/kg bw/day.
Skin corrosion/irritation	Skin Irrit. 2
Serious eye damage/irritation	Eye Irrit. 2
Respiratory or skin sensitization	Rep. 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, but material is only partially (very small percentage) soluble in water.

12.2

Persistence and degradability: No data for the mixture as a whole.

12.3

Bioaccumulation: No data for the mixture as a whole

12.4

Mobility in soil: No data for the mixture as a whole.

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

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			

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 the substance or mixture.

National Regulations

United States: National Inventory TSCA- All components are listed under the TSCA8b inventory as active or exempted. No components are listed under TSCA 12 b

CERCLA Section 304: Sodium Hydroxide RQ 1000 lbs (453.6 kg).

EPCRA Section 311/312 Hazards: Sodium Hydroxide: strong base and can cause severe burns to skins and eyes; corrosive.

USA State Regulations

AirActSection112b;Cal.Proposition 65- no known cancer-causing ingredients.

EU Regulations

Authorizations and/or Restrictions on Use

Not restricted for the intended use(s) of the product.

CoRAP Substance Evaluation

Substance identified for evaluation in 2017 evaluating Member State has concluded that no additional information is required

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.

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 H Statements

Skin Cor. 1B: Skin corrosive, Category1B	H314: Causes severe skin burns and eye damage.
Skin Irrit. 2: Skin irritant Category2	H315: Causes skin irritation.
Eye Irrit. 2: Eye irritant Category2	H319: Causes serious eye irritation.
Resp Irrit.: Respiratory Irritant	H335: May cause respiratory irritation.
TOT 3: Target Organ Toxicity, Category3	

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, Bio accumulative 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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