



SAFETY DATA SHEET

Version: 2.0 Date: September 1, 2022

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

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier Product Name Product Code	Sulphasorb XL SXL
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against	Gas-phase air filtration Do not use for applications other than those specified. It does not remove particulates or biological agents. Not for water purification.
1.3	Details of the supplier of the safety data sheet Company Identification	Pure Air Filtration, LLC 6050 Peachtree Parkway 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 (competent person)	ajameson@pureairfiltration.com
1.4	Emergency telephone number Emergency Phone No. Language(s) spoken:	CHEMTREC (international): +1 703-741-5970 (24 hour line) 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. English

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)	Skin Irrit. H315 and Eye Irrit 2- H319 & H320; This media is classified by the manufacturer for health effects as a mixture according to EU Directive 1999/45/EC with Xi; R36/37/38
2.2	Label elements Product Name Contains:	According to Regulation (EC) No. 1272/2008 (CLP) Sulphasorb XL Carbon, magnesium oxide proprietary mixture

Hazard Pictogram(s)



Signal Word(s)

Warning

Hazard Statement(s)

H315: May cause skin irritation
H319 and H320- may cause eye irritation

Precautionary Statement(s)

P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye

P302+352: IF ON SKIN: wash with plenty of soap and water.
P332+313: IF SKIN irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse
P401: Store in a cool, dry area in enclosed containers
P305+P351+P338- if in eyes, rinse with water for several minutes (after removing contact lenses if present and easy to do without causing further irritation)

Supplemental information

Not applicable.

2.3 Other hazards

Most Important Hazards:

- If crushed or handled extensively, dust may evolve and can be irritating to the eyes, skin or respiratory tract.
- Confined space entry. Appropriate safety precautions should be taken when entering any confined space. Entering containers or media vessel/tanks housing activated carbon for inspection, maintenance, etc. may constitute a confined space entry. In confined spaces, activated carbon may remove oxygen from the air causing severe hazards for workers entering such spaces. Before and during the entrance of a confined space all local, state, and federal regulations should be followed.
- The following medical conditions may be aggravated by exposure to the product: asthma, chronic lung disease, and skin rashes.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	Harmonization	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Carbon	Up to 50%	380210	7722-64-7	231-760-3	01-2119488894-16-XXXX	Eye Irrit. 2; H319+H320 Skin Irrit. 2; H315
Magnesium Oxide	Up to 25%	25199040	1309-48-4	215-171-9	This product is currently exempt from REACH registration requirements	Eye Irrit. 2; H319+H320

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

SECTION 4: FIRST AID MEASURES



<p>4.1 Description of first aid measures Self-protection of the first aider</p> <p>Inhalation Skin Contact Eye Contact Ingestion</p> <p>4.2 Most important symptoms and effects, both acute and delayed</p> <p>4.3 Indication of any immediate medical attention and special treatment needed Notes to a physician:</p>	<p>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 swallowed then seek immediate medical assistance.</p> <p>Move to fresh air. If breathing difficulty occurs or persists, seek medical attention.</p> <p>Wash area with soap and water. If irritated persists, seek medical attention. Rinse skin with water/shower. Gently wash with plenty of soap and water.</p> <p>IF IN EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>IF SWALLOWED: Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention.</p> <p>Skin irritation</p> <p>Treat symptomatically.</p> <p>Product is expected to be non-toxic and only an eye irritant in the powder form. Treatment is recommended to be symptomatic and supportive Other information: This media is classified by the manufacturer for health effects according to EU Directive 1999/45/EC with Xi; R36/37/38</p>
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SECTION 5: FIREFIGHTING MEASURES

<p>5.1 Extinguishing media Suitable Extinguishing media</p> <p>Unsuitable extinguishing media</p> <p>5.2 Special hazards arising from the substance or mixture Oxidising</p> <p>5.3 Advice for fire-fighters</p>	<p>As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or water spray. Alcohol resistant foams (ATC type) are preferred.</p> <p>Do not use water jet. Wet activated carbon depletes oxygen from the air. Materials allowed to smolder for long periods in enclosed spaces may product amounts of carbon monoxide which may reach the lower explosive limit for carbon monoxide of 12.5% in air.</p> <p>See above.</p> <p>Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing. Do not breathe fumes. Further precautions noted above.</p>
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SECTION 6: ACCIDENTAL RELEASE MEASURES

<p>6.1 Personal precautions, protective equipment and emergency procedures</p> <p>Small spillages: Oxidising</p>	<p>Ensure operatives are trained to minimize exposures. Protective clothing appropriate for the environment should be worn. Goggles or safety glasses with side shields, NIOSH approved dust masks, rubber or plastic gloves, and full cover clothing covering arms and legs are recommended. 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 flames and other ignition sources. No smoking. Avoid exposure. Clean up spill immediately.</p> <p>Not an oxidizer.</p>
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6.2	Environmental precautions	Collect spillage. Avoid release to the environment. Click or tap here to enter text.
6.3	Methods and material for containment and cleaning up	Clean up using dry procedures (broom, shovel, etc.); avoid dusting. Do not mix with combustible material. Product may be recovered for use if it has not come in contact with liquid, changed color, or been exposed to significant amounts of gaseous contaminants.
	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, 13

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Ensure operatives are trained to minimize exposures. Use air conveying (vacuum) for bulk removal. If manual handling is used for transfer (from vessel, slingbags, boxes, or pails), use mechanical ventilation or other measures to remove airborne dust. Use personal protective equipment as required. See Section: 8. Wear suitable protective clothing, gloves and eye/face protection. Prevention of Fire and Explosion: Contact with strong oxidizers may result in fire. Avoid all contact. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Confined space entry. Appropriate safety precautions should be taken when entering any confined space. Entering containers or media vessels/tanks housing active carbon for may remove oxygen from the air causing severe hazards for workers entering such spaces. Before and entrance of a confined all local, state, and federal regulations should be followed. Avoid crushing the product to keep dusting to a minimum. As described under Handling above, mechanical ventilation or other measures may be needed to remove airborne dust. Protect from water exposure to contaminated air (gaseous, particulate, and aerosol contaminated), otherwise the product may be rendered useless. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
	Oxidising	Do not store near combustible materials. Not an oxidizer, but contact with strong oxidizers could intensify fire.
7.2	Conditions for safe storage, including any incompatibilities	Keep in closed container. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation. Recommended to package in plastic-lined corrugated boxes, or in bulk sacks. Do not package in a porous material that allows contact to air, water, and contaminants.
	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. Product should be kept protected from water and exposure to contaminated air (gaseous, Particulate, and aerosol contaminated), otherwise the product may be rendered useless.
7.3	Specific end use(s)	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
8.1.1	Occupational Exposure Limits	<p>USA OSHA PEL- 5mg/m3 respirable fraction, 15mg/m3 total dust Dust, or Particulates, Substance Not Otherwise Specified: Austria MAK: 10 mg/m³, STEL 2x30 min, Inhalable dust 5 mg/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</p>

Ireland: 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 Product code: CI4 Product name:
 NORITÒ CI4 Revision date: 29-Jul-2016
 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

8.1.2 Biological limit value	None Known
8.1.3 PNECs and DNELs	Not applicable.
8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Ensure operatives 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 low. Minimize eye and skin contact by using appropriate protective equipment. Use local or general room ventilations to control airborne dust that may be generated.
8.2.2 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 work place.

Protective clothing should be selected specifically for the working place, depending on 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 dusts.
 Small Quantities: Not normally required

Skin protection



Hand protection:
 Wear gloves to EN374 to protect against skin effects from powders.
 Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Skin protection: Wear suitable coveralls to prevent exposure to the skin.

Respiratory protection



Respiratory protective device with a particles filter

Thermal hazards

Exothermic reaction with: Reducing agent. Wear a Heat Protective Suit.

8.2.3 Environmental Exposure Controls	Prevent release to the environment.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid Cylindrical Pellets
Colour	Black
Odor	No odor
Melting point/freezing point	Not applicable.
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Not flammable under normal conditions
Lower and upper explosion limit	Not explosive
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
pH	6.9-9.0
Kinematic viscosity	Not applicable.
Solubility	insoluble
Partition coefficient: n-octanol/water (log value)	Not applicable.
Vapour pressure	1 at 3586 C (6487 F)
Density and/or relative density	No data available
Relative vapour density	Not applicable.
Particle characteristics	Median Particle Diameter 4mm

9.2 Other information

Oxidising properties	Not an oxidizer
Bulk density	0.641-0.721 g/cc (40-45 lbs/ft3)

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	Involvement in fire may release carbon monoxide and dioxide. Click or tap here to enter text.
10.4 Conditions to avoid	Protect from moisture and damage. Keep in air tight container, as contaminated air can render product useless.
10.5 Incompatible materials	Strong oxidizing agents such as ozone, liquid oxygen, chlorine, permanganate.
10.6 Hazardous decomposition product(s)	Hazardous combustion products: Potassium Oxide, Manganese, oxides of manganese

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity - Ingestion	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 10000 mg/kg bw/day
Click or tap here to enter text.	
Acute toxicity - Inhalation	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 > 100 ml/l
Acute toxicity - Skin Contact	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 10000 mg/kg bw/day
Skin corrosion/irritation	Mixture: Skin. Irr 2- H315: causes skin irritation
Serious eye damage/irritation	Mixture: Eye. Irr- H319 and H320: Causes eye irritation
Click or tap here to enter text.	
Respiratory or skin sensitization	Mixture: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Mixture: Based on available data, the classification criteria are not met.
Carcinogenicity	Mixture: Based on available data, the classification criteria are not met.
Reproductive toxicity	Mixture: Based on available data, the classification criteria are not met.
Click or tap here to enter text.	
STOT - single exposure	Mixture: Based on available data, the classification criteria are not met.
STOT - repeated exposure	Mixture: Based on available data, the classification criteria are not met.



Aspiration hazard

Mixture: Not relevant – solid mixture

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No substances identified as having endocrine-disrupting properties.

11.2.2 Other information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available. No known toxicity concerns.

[Click or tap here to enter text.](#) No experimental data available.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available.

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 treatment methods

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Dispose of wastes in an approved waste disposal facility. Sulphasorb XL converts hydrogen sulfide into elemental sulfur, thereby eliminating the acidic aspect. Because of this, Sulphasorb XL does not typically have restrictions on disposal. Consult your local disposal requirements.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID/DOT

IMDG

IATA/ICAO

None

None

None

14.2 UN proper shipping name

Activated Carbon

Activated Carbon

Activated Carbon

14.3 Transport hazard class(es)

None

None

None

14.4 Packing group

None

None

No

14.5 Environmental hazards

No

No

No

14.6 Special precautions for user

None Known

None Known

None Known

14.7 Maritime transport in bulk according to IMO instruments

International Regulations: The media contains less than 50% (by weight) activated carbon, which is produced by a steam activation process. Because of this the media is not subject to the provisions of the International Dangerous Goods Code (IMGD) or the labeling and packaging requirements of the International Maritime Organization (IMO) Class 4.2.

14.8 Additional Information

NMFC 40560 Activated Carbon, Purifying

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture (USA)

SARA Title III (Superfund Amendments and Reauthorization Act)- **Section 312 Hazard Categories (40CFR370.2):** Only expected as Acute (eye irritant), see section 11 TOXICOLOGICAL INFORMATION.

15.1.1 EU regulations

Authorisations and/or Restrictions On Use

Not restricted for the intended use(s) of the product. Just note for classifications and labelling that it is an Xi- Irritant

CoRAP Substance Evaluation

NA

15.1.2 Other National regulations

USA

See 15.1 above. Otherwise, no known.

California Proposition 65- product does not contain known substances to cause cancer or reproductive harm.

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. Updated version and date. 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 carbon and magnesium oxide.

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

Classification of the substance or mixture according to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Irr 2: H315	Calculation method
Eye Irr 2: H319 and H320	Calculation method

LEGEND

- 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: 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
- OEL: Occupational exposure limits
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No Effect Concentration
- REACH: Registration, Evaluation, Authorization and Restriction of Chemicals
- RID: Regulations concerning the international railway transport of dangerous goods
- STEL: Short term exposure limit
- vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:	Hazard Statement(s)
Skin Irr 2	H315: Causes skin irritation
Eye Irr 2	H319 and H320- causes eye irritation

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.

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