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	**Ammoniasorb**
	Product Code	Amsb
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

Sin Irritant, Category 2;
Eye Irritant, Category 2

2.2

Label Element:	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name:	Ammoniasorb
Contains:	Activated Carbon, Phosphoric Acid

Hazard Pictograms(s)



Signal Word(s) Warning

Hazard Statements
H315: Causes Skin Irritation
H319 & H320: Causes Eye Irritation

Precautionary Statements
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves, protective clothing, and eye/face protection.
P303+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: IF SKIN irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse

Supplemental Information
P401: Store in a cool, dry area in enclosed containers.

Other 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 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 products: asthma, chronic lung disease, and skin rashes.

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.

Section 3: Composition/ Information on Ingredients

Chemical Name	%W/W	CAS No.	EC No.	Hazard Statement(s)
Activated Carbon	70-90	7440-44-0	231-153-3	Not Classified
Phosphoric Acid	<10	7664-38-2	231-633-2	H290; H302; H313; H314

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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
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
If possible to do so safely, move smoldering activated carbon to a non-hazardous area, preferably outdoors. Extinguish with carbon dioxide, dry chemical, foam, or water spray. Alcohol resistant foams (ATC type) are preferred.

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
.May decompose if heated. Burning produces irritant fumes. Not flammable but will support combustion.
Activated carbons have a high surface area which may cause self-heating during oxidation. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame.Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide.

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. 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.

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6.2
Environmental precautions
Collect spillage. Avoid release to environment.

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. If the spilled carbon contains dust or has the potential to create dust, use explosion-proof vacuums and/or cleaning systems suitable for combustible dusts. Dispose of unused material in a facility permitted for non-hazardous wastes. Spend (used) carbon should be disposed of in accordance with applicable laws.

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.
Not an oxidizer, But contact with strong oxidizers could intensify fire.

7.2
Conditions for safe storage, including any incompatibilities.
Do not store near combustible materials. Do not mix with combustible material. Activated carbon has a high surface area which may cause self-heating during oxidation. Take precautionary measures against static discharge.

Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation. No smoking. Do not store together with strong oxidizing agents. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazard, by a qualified person.

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 and combustible materials.
. 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.

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Section 8: Exposure Controls / Personal Protection

8.1
Control Parameters Related to Substance – Activated Carbon
OSHA PEL (TWA):15 mg/m^3 total dust; 5 mg/m^3 respirable fraction
ACGIH TLV: no specific TLV; PNOS — 10 mg/m³ inhalable,

Control Parameters Related to Substance – Phosphoric Acid
OSHA PEL: 1 mg/m³ TWA.
ACGIH TLV: 1 mg/m³ TWA; 3 mg/m³ STEL.

Occupational Exposure Limits
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; 1.25 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 protective clothing to chemicals should be ascertained with the respective supplier.

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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	Wear gloves to EN374 to protect against skin effects from powders. Wear suitable coveralls to prevent exposure to the skin.	Respiratory protective devices may be necessary if local exhaust ventilation is not adequate.

Section 9: Physical and Chemical Properties

9.1
Basic physical and chemical properties

Physical state:	Solid cylindrical pellets
Color:	Black
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
Vapor density:	Not applicable
Bulk density:	30-40 lbs./ft3 (480-650 kg/m3)
Relative density:	Not available
Particle Characteristics:	Median Particle Diameter 4mm

9.2
Other Information
Oxidizing Properties: Not applicable

Section 10: Stability and Reactivity

10.1
Reactivity
May react exothermically upon contact with strong oxidizers.
May react exothermically upon contact with strong alkali material.

10.2
Chemical stability
Stable under normal conditions.

10.3
Possibility of hazardous reactions
None under normal processing.

10.4
Conditions to avoid
Dust formation. Eliminate sources of ignition. Protect from moisture, damage, high temperatures, and sunlight.

10.5
Incompatible materials
Strong acids. Strong alkali materials. Strong oxidizing agents.

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10.6
Hazardous decomposition products
Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (LEL = 12.5% in air). Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed.

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. 2
Serious eye damage/irritation	Eye Irrit. 2
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 mixture.

11.2
Numerical toxity values for hazardous ingredients

- **Activated carbon (CAS 7440-44-0):**
  LD50 oral (rat) > 10,000 mg/kg
  Inhalation — Study waived based on physical form of the substance.
  LD50 dermal > 2,000 mg/kg
- **Phosphoric acid (H_3PO_4) (CAS 7664-38-2):**
  LD50 oral (rat) = 1,530 mg/kg
  LC50 inhalation (rat, 4-hr mist) > 0.85 mg/L
  LD50 dermal (rabbit) = 2,740 mg/kg

11.3
Carcinogen listing status
Activated carbon — NTP: Not listed. IARC: Not listed. OSHA: Not regulated as a carcinogen.
Phosphoric acid — NTP: Not listed. IARC: Not listed. OSHA: Not regulated as a carcinogen.

11.4
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
Nontoxic. The substance is highly insoluble in water and the substance is unlikely to cross biological membranes. No adverse ecological effects are known.

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

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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

13.1
Waste Disposal Methods
Dispose of waste in an approved waste disposal facility, according to local laws.

Section 14: Transport Information

14.1
Transportation Information

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

14.2
Maritime transport in bulk according to IMO instruments
International Regulations: The media contains 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.

14.3
Additional information
Not known.

Section 15: Regulatory Information

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

National Regulations
CERCLA Section 103: Phosphoric Acid RQ 5,000 lbs per 40 CFR 302.4;
SARA Section 313: Phosphoric Acid Toxic Release Inventory reportable. Activated carbon: not applicable.
SARA Section 312 (hazard category): (40CFR370.2): Activated carbon: not applicable.

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

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CoRAP Substance Evaluation
Not available.

Other National Regulations
Other Not 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. 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

Date of last revision: 2026-08-14

16.1
The H-statements listed below apply to individual ingredients at pure-substance concentration. For the classification of this mixture as supplied, see Section 2.

Full list of Hazard Classification and Hazard Statements

Skin Irrit. 2: Skin Irritation, Category 2	H315: Causes skin damage.
Eye Irrit. 2: Eye irritation, Category 2	H319 and H320: Causes eye damage.
Corrosive to Metals Category 1	H290: May be corrosive to metals.
Acute Tox. 4 (oral): Acute Toxicity, Oral, Category 4	H302 Harmful if swallowed.
Acute Tox.5 (dermal): Acute Toxicity, Dermal, Category 5	H313: May be harmful in contact with skin.
Skin Corr. 1B: Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Eye Dam. 1: Eye damage, Category 1	

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

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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.

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