

SAFETY DATA SHEET

Version: 3.0 Date: April 2024

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	PureAir 12 SP			
	Product Code	PA 12 SP			
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 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) 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			



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:	PureAir 12 SP
Contains:	Aluminum oxide, sodium permanganate proprietary blend

Hazard Pictogram(s)



Signal Word(s) Warning

Hazard Statements H315: Causes skin irritation; H319: Causes eye irritation.

Precautionary Statements: P264: Wash hands thoroughly after handling

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. P332+P313: If skin irritation occurs: Immediately call a doctor. P337+P313: If eye irritation occurs: Immediately call a doctor. P362: Take off contaminated clothing and wash before reuse.

Supplemental Information

Other Hazards

Not applicable

May cause respiratory irritation.

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.

Section 3: Composition/ Information on Ingredients						
Chemical Name	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)	
Aluminum oxide	70-80	1344-28-1	215-691-6	01-2119529248-35-xxxx	Not Classified	
Sodium permanganate	10-12	10101-50-5	233-251-1	01-2119495598-15-xxxx	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Damage H318 Aquatic Chronic 1; H410	

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



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.

Causes skin rashes and eye irritation and reddening. 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 jet 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. Not flammable but dust may support combustion.

Oxidizer characteristics

Contains an oxidizing substance (sodium permanganate). 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 that incorporates both primary and secondary treatments.

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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

Contains an oxidizing substance (sodium permanganate). 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. Do not allow to enter drains, sewers, or watercourses.

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.

Small Spillages

Sweep up spilled substance and remove to safe place. Do not use saw dust. 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 operators are trained to minimize exposures. Use personal protective equipment as required.

See Sectio 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

Contains an oxidizing substance (sodium permanganate). Do not store near combustible materials. Do not mix with combustible material. Take precautionary measures against static discharge.

7.2

Conditions for safe storage, including any incompatibilities.

Do not store near combustible materials. Do not mix with combustible material.

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

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. Keep away from acid, reducing agents, and combustible materials.

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

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

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; 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)

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	Hand & Skin Protection	Respiratory Protection
Use eye protection according to EN 166, designed to protect against dust.	Wear gloves to EN374 to protect against skin effects from powders.	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

Exothermic reaction with acids or reducing agent. Wear a Heat Protective Suit.



Section 9: Physical and Chemical Properties

9.1

Basic physical and chemical properties

 Physical state:
 Solid pellets

 Color:
 Purple

 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

Bulk Density: ~ 45-60 lbs./ft3, 720-960 kg/m3

Relative vapor density: N/A

Particle Characteristics: Median Particle Diameter 4mm

9.2

Other Information

Oxidizing Properties: Contains an oxidizing substance (sodium permanganate)

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 acids, strong oxidizing agents, reducing agents.

10.4

Conditions to avoid

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

10.5

Incompatible materials

Acids. Strong reducing and oxidizing agents. Combustible materials.

10.6

Hazardous decomposition products

Sodium 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: Based on available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day.

Acute toxicity – Inhalation: Based on available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: LC50 >20ml/l

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

Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/Kg bw/day.

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Skin corrosion/irritation: Skin Irrit. H315
Serious eye damage/irritation: Eye Irrit. H319

Respiratory or skin sensitization:
Germ cell mutagenicity:
Based on available data, the classification criteria are not met.
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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

Contains sodium permanganate toxic to aquatic life.

Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Estimated LC50 (Mixture):

Short Term (acute) > $0.1 - \le 1$ mg/L

Long term (chronic) > 0.1 - ≤ 1 mg/L

EC50(48h) 0.06 mg/L (Daphnia magna) (EU Method C.2)

EbC50: (72h) 0.43 mg/L (Algae)(EU Method C.3)

Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Harmonized Classification M-factor: 10.

No data is available for the mixture.

12.2

Persistence and degradability: No data is available for the mixture. Sodium permanganate Testing can be waived because the substance is an inorganic compound.

12.3

Bioaccumulation: No data is available for the mixture. Sodium permanganate Testing can be waived because the substance is an inorganic compound.

12.4

Mobility in soil: No data is available for the mixture. Sodium permanganate 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 the substance or mixture

US National Regulations

National Inventory TSCA- All components are listed under the TSCA 8 b inventory as active or exempted. No components are listed under TSCA 12 b

CERCLA Section 304: Sodium Permanganate reportable quantity 100 lbs (45.4 kg)

EPCRA Section 311/312 Hazards: Sodium permanganate: fire hazard, immediate (acute) health hazard, delayed health hazard. EPCRA Section 313 Toxic Release inventory: Sodium Permanganate

USA State Regulations

OSHA 29 CFR 19.10

Air Act Section 112b

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, California)- this product cannot expose you to products know to California to cause cancer or reproductive harm.

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. Existing ECHA registration for Sodium permanganate (CAS No. 10101-50-5)

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

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16.1

Full list of Hazard classification and Hazard Statements

Ox. Sol. 2; Oxidizing solid, Category 2

Acute Tox. 4; Acute Toxicity, Category 4

H272: May intensify fire; oxidizer.

H302: Harmful if swallowed.

Skin Corr. 1C; Skin corrosion/irritation, Category 1C H314: Causes severe skin burns and eye damage.

Skin Irrit. 2; Skin irritation, Category 2

Eye Irrit. 2; Eye irritation, Category 2

Resp. Irrit.; Respiratory irritation

Eye Dam. 1; Eye damage, category 1

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H318: Causes serious eye damage.

Aquatic Chronic 1; Hazardous to the aquatic

environment, Chronic, Category 1 H410: Very toxic to aquatic life with long lasting effects.

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

Half maximal effective concentration
IATA
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization

ICAO INCADE INCADE INCADE INCADE INCADE INCADE INCADE INCADE 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: 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.

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