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	**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 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) *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

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 causeirritation 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.

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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.
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 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
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.

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Section 8: Exposure Controls / Personal Protection

8.1
Control Parameters Related to Substance – Aluminum oxide
OSHA PEL: 15mg/m³ (8hrTWA) as Total dust; 5mg/m³ (8hrTWA) 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; 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)
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.

<table>
<tr>
<td>Eye / Face Protection
Use eye protection according to EN 166, designed to protect against dust.</td>
<td rowspan="2">Hand & Skin Protection
Wear gloves to EN374 to protect against skin effects from powders.

Wear suitable coveralls to prevent exposure to the skin.</td>
<td rowspan="2">Respiratory Protection
Respiratory protective devices may be necessary if local exhaust ventilation is not adequate.</td>
</tr>
<tr>
<td>For Small Quantities:
Not Normally Required</td>
</tr>
</table>

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 vapordensity:	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.
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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:	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
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
Containssodium permanganate toxic to aquatic life.
AquaticChronic 1; H410: Very toxic to aquatic life with long lasting effects.
EstimatedLC50 (Mixture):
Short Term(acute) > 0.1 – ≤ 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.

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Section 14: Transport Information

14.1
Transportation Information

	ADR/RID/DOT	IMDG	IATA/ICAO
UN Number orIDNumber	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 29CFR 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,Category2	H272: May intensify fire; oxidizer.
Acute Tox. 4; Acute Toxicity, Category4	H302: Harmful if swallowed.
Skin Corr. 1C; Skin corrosion/irritation,Category1C	H314: Causes severe skin burns andeyedamage.
Skin Irrit. 2; Skin irritation, Category2	H315: Causes skin irritation.
Eye Irrit. 2; Eye irritation, Category2	H319: Causes serious eye irritation.
Resp. Irrit.; Respiratory irritation	H335: May cause respiratory irritation.
Eye Dam. 1; Eye damage, category1	H318: Causes serious eye damage.
Aquatic Chronic 1; Hazardous totheaquatic environment, Chronic, Category1	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
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.

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