



PureAir 4, PureAir 8, PureAir 12 Revision Date: *June 2020*

SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Identification: PureAir 4, PureAir 8, PureAir 12

Product Synonyms: Alumina impregnated with Potassium Permanganate

Use of the preparation: This product is intended for use in gas-phase air filtration

Company Identification:

Pure Air Filtration 6050 Peachtree Parkway Suite 240-187 Atlanta, GA 30092

Company Contact Numbers:

Telephone: (678) 935-1431 Facsimile: (678) 935-0648







2. HAZARD(S) IDENTIFICATION

Irritant, Category 2 Eye Irritation, Category 2

GHS Hazard Codes: H315: Causes Skin Irritation

H319: Causes Serious Eye Irritation

GHS Precaution Codes: P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

GHS Response Codes: 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.

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. If eye irritation persists, get medical advice/attention.

GHS Storage Codes: P401: Store in a cool, dry area in enclosed containers.

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.

Adverse Human Health Effects:

—The following medical conditions may be aggravated by exposure to the product: asthma, chronic lung disease, and skin rashes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms: Alumina

Formula: KMnO4 impregnant (4%-12%) on aluminum oxide (66%-70%)

Proprietary ingredient: less than 10% Chemical Family: Inorganic Oxidizer

CAS Number: 1344-28-1

Common Chemical Name	Synonyms	CAS#	Wt%	EC#	EU
Classification					
Aluminum Oxide	alumina	1344-28-1	88-96 %		
Potassium Permanganate		7722-64-7	4-12 %		



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).

4. FIRST-AID MEASURES

First aid measures should be taken as indicated below for the following routes of exposure.

Inhalation: Move to fresh air. If breathing difficulty occurs or persists, seek medical attention.

Skin Contact: Wash area with soap and water. If irritated persists, seek medical attention. **Eye Contact:** Flush with large quantities of water for 15 min. Seek medical attention.

Ingestion: Seek medical attention.

Notes to Physician:

Product is expected to be non-toxic and only an eye irritant in the powder form. Treatment is recommended to be symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

If involved in a fire, flood with plenty of water.

Specific Hazards:

- -High airborne concentrations of dust may pose an explosion hazard
- -Carbon monoxide and oxides of phosphorous may be generated in the event of a fire

Protection of Firefighters:

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

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.

Environmental Precautions:

None known

Methods for Cleaning Up:

Clean up using dry procedures (broom, shovel, etc.); avoid dusting.

Recovery:

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.

Disposal:

See Section 13: DISPOSAL CONSIDERATIONS

7. HANDLING AND STORAGE

Handling:

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.

Prevention of User Exposure: See section 8

Prevention of Fire and Explosion:

Contact with strong oxidizers may result in fire.

Precautions for Safe Handling:

-Confined space entry. Appropriate safety precautions should be taken when entering any confined space. Entering containers or media vessels/tanks housing active carbon for

inspection, maintenance, etc. may constitute a confined space entry. In confined spaces, activated 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.

Storage:

General good storage practices should be followed.

Suitable Conditions:

Store in a cool, dry area and keep in original, closed containers.

Incompatible Products:

- -Product should be kept protected from water and exposure to contaminated air (gaseous, Particulate, and aerosol contaminated), otherwise the product may be rendered useless.
- -Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganates, peroxides, etc. may result in fire.

Recommended Packaging Materials:

- -Corrugated boxes of 50 lb, double wall quality, with 4 mm plastic liners.
- -Injection molded polystyrene pails and lids including a neoprene seal.

Not Suitable Materials:

Porous materials allowing contact with water, air, and the contaminants contained therein.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:

Inert or Nuisance Dust 5mg/m3 respirable fraction OSHA PEL 15 mg/m3 total dust OSHA PEL

Exposure Controls:

Minimize eye and skin contact by using appropriate protective equipment. Use local or general room ventilations to control airborne dust that may be generated.

Personal Protective Equipment:

The following recommendations are made for appropriate personal protective equipment for the following.



Respiratory Protection: NIOSH approved dust mask **Hand Protection:** Rubber or plastic gloves

Eye Protection: Goggles or safety glasses with side shields **Skin and Body Protection:** Full cover clothing covering arms and legs. **Hygiene Measures:** Do not inhale dust and avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Form: Spherical pellets approximately 4mm (1/8 in. nomimal) in diameter

Color: Purple

Odor: No significant odor

Health, Safety, Environmental Information

PH: Not applicable **Flash point:** Not applicable

Flammability: Not flammable under normal conditions

Explosive properties: Not explosive

Oxidizing properties: not considered an oxidizing agent; minimal oxidizing potential

Vapor pressure: Not applicable **Bulk density:** 45-60 lb/cu ft

Solubility: partially soluble in water. Will dissolve in concentrated acids and

alkalis. **Partition coefficient:** Not applicable

Viscosity:Not applicableVapor density:Not applicableEvaporation rate:Not applicable

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions

Materials to Avoid:

None known

Conditions to Avoid:

Protect from water and exposure to contaminated air, otherwise media may be rendered useless.

Hazardous Decomposition Products:

Dilute KMnO4 solution when wetted.

Intended Use and Foreseeable Misuse:

Intended use is for air purification from gaseous contaminants. The product is not intended to remove dangerous particulates or biological contaminants. The product is not intended to purify water.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Expected to be low[2], not tested

Local Effects: See section 3. HAZARDS IDENTIFICATION, Adverse Human Health Effects.



Sensitization:

Primary skin irritation and corrosivity (rabbits): expected to be non-irritant, not tested

Eye irritation (rabbits): expected to be irritant not tested

Primary Route of Entry: Inhalation, ingestion, skin contact, eye contact

12. ECOLOGICAL INFORMATION

Not determined. See Section 3. "HAZARDS IDENTIFICATION, Environmental Effects".

13. DISPOSAL CONSIDERATIONS

Waste From Residues:

Spent media that has removed toxic chemicals should be examined for specific hazards. Local regulations should always be consulted and followed.

Contaminated Packaging: Not relevant

14. TRANSPORT INFORMATION

International Regulations: not applicable

Proper Shipping Name: NMFC 13090 ALUMINA

15. REGULATORY INFORMATION

Regulations:

This section contains information specifically applicable to the chemical product relative to the following regulations. Local regulations should always be consulted and followed.

SARA Title III (Superfund Amendments and Reauthorization Act)

Section 302 Extremely Hazardous Substances (40CFR355):

Not listed

Section 312 Hazard Categories (40CFR370.2):

Only expected as Acute (eye irritant), see section 11 TOXICOLOGICAL INFORMATION.

Section 313 Reportable Ingredients (40CFR372):

None listed

EU Classifications & Labeling:



Xi - Irritant

Risk Phrases:

R36/37/38: Irritating to eyes, respiratory system and skin

Safety Phrases:





S3: Keep in cool Place.S8: Keep container dry.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with, eyes, rinse immediately with plenty of water and seek medical

advice

S28: After contact with skin, wash immediately with plenty of soap and water.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

16. OTHER INFORMATION

Ingredient R(isk) Phrase Definitions:

None

Disclaimer:

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones, which exist. Pure Air Filtration, LLC makes no warrants of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. The user has sole responsibility to determine the suitability of the material for any use and the manner of use contemplated.