

### SECTION 1: Identification of the substance or mixture and of the supplier

#### 1.1. Product identifier

Trade name : Odorkol<sup>®</sup> AM Media  
Product code : PUR-014

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Dry granular medium for use in gas-phase air filtration  
Restrictions of use : Only use for the intended purpose.  
: The product is not intended to remove dangerous particulates or biological agents.  
: The product is not intended to purify water.

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer : Purafil, Inc.  
2654 Weaver Way  
Doraville, Georgia 30340 USA  
Tel: +1-770-662-8545, +1-800-222-6367 (toll-free within the USA & Canada)  
Fax: +1-770-263-6922  
[www.purafil.com](http://www.purafil.com)

#### 1.4. Emergency telephone number

CHEMTREC : For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 CCN723586  
Outside USA and Canada: +1-703-741-5970 (collect calls accepted)

Purafil, Inc. : +1-770-662-8545, +1-800-222-6367 (toll-free within the USA and Canada)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Irrit. 2 H315  
Eye Irrit. 2A H319

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, protective clothing, protective gloves  
P302+P352 - If on skin: Wash with plenty of 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  
P321 - Specific treatment (see ... on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse

#### 2.3. Other hazards

May cause respiratory irritation.  
Special danger of slipping by leaking/spilling product.  
The components in this mixture do not meet the criteria for classification as PBT or vPvB.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available.

**SECTION 3: Composition/information on ingredients**

Name	Product identifier	%	GHS-US classification
Carbon (C)	(CAS No) 7440-44-0	60 – 90	Not classified
Phosphoric acid (H <sub>3</sub> PO <sub>4</sub> )	(CAS No) 7664-38-2	2 – 8	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- General information : First aider: Pay attention to self-protection!
- After inhalation : Provide fresh air. In case of respiratory tract irritation, consult a physician.
- After contact with skin : After contact with skin, wash immediately with water and soap. Change contaminated clothing. If the product contacts the skin with water, it may leave a stain of insoluble products on the skin. This stain will be washed away/rubbed off over a period of time (hours to days). If skin irritation or rash occurs: Get medical advice/attention.
- After contact with eyes : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
- After ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

- : Following inhalation: Coughing, asthmatic complaints. Repeated and prolonged contact may aggravate asthma and dermatitis.
- : After skin contact: Irritation and reddening. Skin rashes.
- : Following eye contact: Irritation and reddening. Causes serious eye irritation.
- : After ingestion: May cause irritation of the gastrointestinal mucosa, abdominal pain, vomiting and diarrhea.

**4.3. Indication of any immediate medical attention and special treatment needed**

- : Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

- Suitable extinguishing media : Coordinate firefighting measures to the fire surroundings.

- Unsuitable extinguishing media : None known.

**5.2. Special hazards arising from the substance or mixture**

- : The material is not combustible. When involved in a fire, carbon monoxide, carbon dioxide, and hydrogen may be produced.
- : Explosive dust-air mixtures may form.

**5.3. Advice for firefighters**

- : Wear NIOSH approved self-contained breathing apparatus and chemical protective clothing.

**5.4. Additional information**

- : Suppress gases/vapors/mists with water spray jet.
- : Contaminated firefighting water must be collected separately. Do not allow to enter into surface water or drains.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

- : Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**

- : Do not allow to enter into surface water or drains. If contacted by water, the leachate may be corrosive (pH >9).

**6.3. Methods and material for containment and cleaning up**

- : Pick up dry. Take up mechanically. Avoid generation of dust. Treat the recovered material as prescribed in section 13 on waste disposal.

**6.4. Reference to other sections**

- : Protection measures in accordance with section 8.
- : Disposal in accordance with section 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

- Advice on safe handling : Avoid generation of dust. 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.

**7.2. Conditions for safe storage, including any incompatibilities**

- Requirements for storage rooms and vessels : Store only in original container. Keep container tightly closed in a cool, well-ventilated place.  
 : Protect from water and exposure to contaminated air (gaseous, particulate, and aerosol contaminated), otherwise the product may be rendered useless.

- Further information on storage conditions : Recommended packaging materials:  
 - Corrugated double wall boxes with plastic liners.  
 - Injection molded polystyrene pails and lids including a neoprene seal.

**7.3. Specific end use(s)**

- : Dry granular medium for use in gas-phase air filtration.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Phosphoric acid (7664-38-2)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

**8.2. Exposure controls**

- Appropriate engineering controls : If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.
- Protective and hygiene measures : Remove contaminated, saturated clothing immediately. After work, wash hands and face.  
 : When using, do not eat or drink.
- Eye and face protection : Tightly fitting safety glasses with side shields.
- Hand protection : Protect skin by using skin protective cream.  
 : Wear suitable gloves.  
     Suitable material: NR (natural rubber (India rubber, caoutchouc), natural latex).  
     Thickness of glove material: >= 0.1 mm  
     Penetration time (maximum wearing period): >480 Min.  
     The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Skin protection : Full cover clothing covering arms and legs.
- Respiratory protection : In exceptional situations (e.g., accidental release of substances, occupational exposure limit is exceeded) the wearing of respiratory protection is required. Observe the wear time limits.  
 : Dust mask: NIOSH N95; identification color: white

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

- Physical state (appearance)** : Solid extruded pellets or granules, 1/16 - 1/4" (1.6 – 6.4 mm) in diameter
- Color : Dark gray to black
- Odor : No specific odor
- Odor threshold : No data available
- pH : ca. 3.0

**Changes in the physical state**

- Melting point/freezing point : No data available
- Initial boiling point and boiling range : No data available
- Flash point : No data available
- Evaporation rate : No data available

**Flammability**

Solid : Not flammable under normal use conditions  
 Upper/lower flammability : No data available

**Explosive properties**

Lower explosion limit : No data available  
 Upper explosion limit : No data available  
 Ignition temperature : No data available

**Auto-ignition temperature**

Solid : No data available

**Decomposition temperature**

: No data available

**Vapor pressure**

: No data available

**Vapor density**

: No data available

**Relative density**

: ca. 40 lb/ft<sup>3</sup>, 0.6410 g/cc, 641 kg/m<sup>3</sup>

**Water Solubility**

: Partially soluble

**Solubility in other solvents**

: No data available

Soluble in : Concentrated acids

**Partition coefficient**

n-octanol/water : No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

**9.2. Other information**

: No data available.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

: No dangerous reactivity under normal conditions.

**10.2. Chemical stability**

: The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

: May occur in contact with: acids, strong oxidizing agents.

**10.4. Conditions to avoid**

: Liquid water, moisture. Heat sources, open flames and other ignition sources.

**10.5. Incompatible materials**

: Acids, strong oxidizing agents.

**10.6. Hazardous decomposition products**

: Carbon monoxide, carbon dioxide, and hydrogen may be generated during combustion of this material. Corrosive fumes may be liberated if involved in a fire.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Carbon (7440-44-0)**

LD <sub>50</sub> oral rat	> 10,000 mg/kg
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**Phosphoric acid (7664-38-2)**

LD <sub>50</sub> oral rat	1,530 mg/kg
LD <sub>50</sub> dermal rabbit	2,740 mg/kg
ATE US (oral)	1,530.000 mg/kg bodyweight
ATE US (dermal)	2,740.000 mg/kg bodyweight

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

Irritation and corrosivity : Causes serious eye irritation (GHS: Skin Irrit. 2).  
 : Causes skin irritation (GHS: Eye Irrit. 2A).

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

STOT-single exposure	: Based on available data, the classification criteria are not met.
Severe effects after repeated or prolonged exposure	: Based on available data, the classification criteria are not met.
Carcinogenic/mutagenic/toxic effects for reproduction	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1. Toxicity**

Acute Daphnia toxicity	: No data available.
Algae toxicity	: No 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 components in this mixture do not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

: No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Advice on disposal	: Waste disposal should be in accordance with existing federal, state, and local environmental control regulations. Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled 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 of residues/unused products	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an approved waste disposal plant. Avoid release to the environment.
Disposal of packaging	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an approved waste disposal plant. Avoid release to the environment.

**SECTION 14: Transport information****14.1. Land transport (DOT)**

UN number	: None on finished product.
UN proper shipping name	: Not regulated.
Transport hazard classes	: None on finished product.
Packing group	: None on finished product.
Marine pollutant	: No

**14.2. Water transport (IMDG / IMO)**

UN number	: None on finished product.
UN proper shipping name	: Not regulated.
Transport hazard classes	: None on finished product.
Packing group	: None on finished product.
Marine pollutant	: No

**14.3. Air transport (IATA / ICAO)**

UN number	: None on finished product.
UN proper shipping name	: Not regulated.
Transport hazard classes	: None on finished product.
Packing group	: None on finished product.
Marine pollutant	: No

**14.4. Environmental hazards**

Environmentally hazardous	: No
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**14.5. Special precautions for user**

: No special precautions known.

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

**Phosphoric acid (7664-38-2)**

RQ (Reportable quantity, section 304 of EPA's List of Lists)	5,000 lb
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**15.2. International regulations**

**CANADA**

**Carbon (7440-44-0)**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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**Phosphoric acid (7664-38-2)**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class E - Corrosive Material
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**EU-Regulations**

**Carbon (7440-44-0)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Phosphoric acid (7664-38-2)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**15.2.2. National regulations**

**Carbon (7440-44-0)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

**Phosphoric acid (7664-38-2)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on the Canadian IDL (Ingredient Disclosure List)

**15.3. US State regulations**

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

**SECTION 16: Other information**

Abbreviations and acronyms:

- ACGIH:** American Conference Of Governmental Industrial Hygienists
- ATE:** acute toxicity estimate
- CAS:** Chemical Abstracts Service
- CLP:** Classification, Labeling, Packaging
- DOT:** United States Department of Transportation
- DNEL:** Derived No Effect Level
- EC<sub>50</sub>:** median effective concentration for immobilization
- ErC<sub>50</sub>:** effective concentration of a substance that causes 50% reduction in growth rate
- GHS:** Globally Harmonized System of Classification and Labeling of Chemicals
- IATA:** International Air Transport Association
- ICAO:** International Civil Aviation Organization
- IMDG:** International Maritime Code for Dangerous Goods
- IMO:** International Maritime Organization

**LC<sub>50</sub>**: Lethal concentration, 50% of test population  
**OECD**: Organization for Economic Co-operation and Development  
**LD<sub>50</sub>**: Lethal dose, 50% of test population  
**PNEC**: Predicted No Effect Concentration  
**STOT**: Specific Target Organ Toxicity  
**TLV**: Threshold Limiting Value  
**TWA-TLV**: Threshold Limit Value for the Time Weighted Average 8 hour day (ACGIH Standard)

Full text of H-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*