Purakol [®] HG Media afety Data Sheet		purafil
cording to the federal final rule of hazard commun SECTION 1: Identification of the s	substance or mixture and of the supplier	
I.1. Product identifier		
Frade name Product code	: Purakol [®] HG Media : PUR-038	
I.2. Relevant identified uses of the s	substance or mixture and uses advised against	
Recommended use Restrictions of use	 Dry granular medium for use in gas-phase air filtration Only use for the intended purpose. The product is not intended to remove dangerous particulate The product is not intended to purify water. 	es or biological agents.
I.3. Details of the supplier of the saf	ety 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 Fax: +1-770-263-6922 www.purafil.com	9 USA & Canada)
I.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 a 	accepted)
Purafil, Inc.	: +1-770-662-8545, +1-800-222-6367 (toll-free within the USA	A and Canada)
SECTION 2: Hazards identificatio	n	
Classification of the substance of GHS-US classification Skin Irrit. 2 H316 Eye Irrit. 2A H319 Respiratory Irrit. 3 H335 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	or mixture	
Signal word (GHS-US)	GHS07 : Warning : H316 - Causes mild skin irritation	
Hazard statements (GHS-US) Precautionary statements (GHS-US)	 H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid Breathing: dust/fume/gas/mist/vapor/spray P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, protective clothing, protective g P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled/Remove to fresh air P305+P351+P338 - If in eyes: Rinse cautiously with water f lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: get medical advice/att P403+P233 - Store in well ventilated place. Keep container P405 - Store locked up P501 - Dispose container to appropriate receptacle 	for several minutes. Remove contact tention

Entering containers or media vessels/tanks for inspection, maintenance, etc. that contain activated carbon may constitute a confined space entry. 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.

May cause respiratory irritation.

Special danger of slipping on spilled product.

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

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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	≥85	Not classified
Sulfur (S)	(CAS No) 7704-33-9	≤15	Not classified

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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 with water and soap. Change contaminated clothing. 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). Do not induce vomiting. Get medical advice/attention
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 a	ttention and special treatment needed

: Treat symptomatically.

SECT	ON 5: Firefighting measures	
5.1. Suitable	Extinguishing media extinguishing media	: If involved in a fire, flood with plenty of water. Coordinate firefighting measures to the fire surroundings.
Unsuitable extinguishing media : None known.		: None known.
5.2.	Special hazards arising from the su	 Ibstance or mixture The material is combustible. When involved in a fire, carbon monoxide, carbon dioxide, sulfur oxides, and other sulfur gases 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 skin, eyes and clothes. Wear personal protection equipme	
6.2.	Environmental precautions		
	:	None known.	
6.3.	3. Methods and material for containment and cleaning up		
	:	Pick up dry. Take up mechanically. Avoid generation of du prescribed in section 13 on waste disposal.	ist. Treat the recovered material as
6.4.	Reference to other sections		
	-	Protection measures in accordance with section 8. Disposal in accordance with section 13.	
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SECTIO	N 7: Handling and	storage		
7.1.	Precautions for safe has safe handling		Avoid concretion of duct and prolonged as	ntact with even and skin. Line air conveying
Advice on	sale handling	:		ling is used for transfer (from vessel, slingbags, or other measures to remove airborne dust.
7.2.	Conditions for safe sto			
Requirements for storage rooms and vessels		nd 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		ditions :	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)		Des menules modium for use in see where	ais filmation
			Dry granular medium for use in gas-phase	ar nitration.
SECTIO	N 8: Exposure cor	ntrols/person	al protection	
8.1.	Control parameters			
Carbon	(7440-44-0)			
OSHA		OSHA PEL (TW	'A) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
8.2.	Exposure controls			
		:	If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid breathing 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 f	ace protection	:	Tightly fitting safety glasses with side shiel	ds.
Hand protection :		:	Thickness of glove material: >= 0.1 mm Penetration time (maximum wearing pe The quality of the protective gloves res	ndia rubber, caoutchouc), natural latex). า
Skin prote	ection	:	Full cover clothing covering arms and legs.	
Respiratory protection :		:	Dust mask: NIOSH N95; identification color: white. Observe the wear time limits.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state (appearance)	: Solid, extruded cylindrical pellets or granules, $\frac{1}{16} - \frac{1}{4}$ " (1.6 – 6.4 mm) in diameter
Color	: Black
Odor	: No specific odor
Odor threshold	: No data available
pH	: No data available
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	: Combustible
Upper/lower flammability	: No data available
Explosive properties	

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Lower explosion limit	: No danger of explosion under normal conditions, high concentrations of carbon dust in the air
Upper explosion limit	can form an explosive dust/air mixture.
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	: 28-33 lb/ft ³ , 0.4485-0.5286 g/cc, 449-529 kg/m ³
Water Solubility	: Partially soluble
Solubility in other solvents	: No data available
Soluble in	: Insoluble
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.

SECT	ION 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	
		: Fire may occur in contact with strong oxidizing agents.
10.4.	Conditions to avoid	
		: Liquid water, moisture. Heat sources, open flames and other ignition sources.
10.5.	Incompatible materials	
		: Strong oxidizing agents.
10.6.	Hazardous decomposition products	
		: Carbon monoxide, carbon dioxide, sulfur oxides, and other sulfur gases may be generated during combustion of this material.

SECTION 11: Toxicological information		
11.1.	Information on toxicological effects	

Carbon (7440-44-0)	
LD_{50} oral rat	> 10,000 mg/kg
Acute toxicity	: Based on available data, the classification criteria are not met.
Irritation and corrosivity	: Based on available data, the classification criteria are not met.
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 exposur	e : Based on available data, the classification criteria are not met.
Carcinogenic/mutagenic/toxic effects for reproduction	on : Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

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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 assessme	nt
	: 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 consideration	IS
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 liquids 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. : None on finished product.
Packing group Marine pollutant	: No
14.2. Water transport (IMDG / IMO)	A Marine and Collaborations
UN number UN proper shipping name	: None on finished product. : 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 Marine pollutant	: None on finished product. : No
14.4. Environmental hazards Environmentally hazardous	: No
·	
14.5. Special precautions for user	· No special procedutions known
	: No special precautions known.

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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.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

EU-Regulations

Carbon (7440-44-0)

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)

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	IATA: International Air Transport Association
Hygienists	ICAO: International Civil Aviation Organization
ATE: acute toxicity estimate	IMDG: International Maritime Code for Dangerous Goods
CAS: Chemical Abstracts Service	IMO: International Maritime Organization
CLP: Classification, Labeling, Packaging	LC ₅₀ : Lethal concentration, 50% of test population
DOT : United States Department of Transportation	OECD: Organization for Economic Co-operation and Development
DNEL: Derived No Effect Level	LD ₅₀ : Lethal dose, 50% of test population
EC ₅₀ : median effective concentration for immobilization	PNEC: Predicted No Effect Concentration
ErC ₅₀ : effective concentration of a substance that causes 50%	STOT: Specific Target Organ Toxicity
reduction in growth rate	TLV: Threshold Limiting Value
GHS: Globally Harmonized System of Classification and Labeling of	TWA-TLV: Threshold Limit Value for the Time Weighted Average 8
Chemicals	hour day (ACGIH Standard)

Full text of H-statements:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Respiratory Irrit. 3	May cause respiratory irritation
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H335	Respiratory irritant Category 3

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.