Safety Data Sheet

according to the federal final rule of hazard communication revised in 2012 (HazCom 2012)



SECTION 1: Identification of the substance or mixture and of the supplier		
1.1. Product identifier		
Trade name Product code	: Chlorosorb [®] Ultra Media : PUR-026	
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against	
	: 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 particu	lates or biological agents.
	: The product is not intended to purify water.	
1.3. Details of the supplier of the safety d		
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	
1.4. Emergency telephone number	- Foulderendeur Motoriele fou Deurseur Coodel la sident	
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 call	s accented)
	Υ. Υ.	. ,
Purafil, Inc.	: +1-770-662-8545, +1-800-222-6367 (toll-free within the L	JSA and Canada)
SECTION 2: Hazards identification		
2.1. Classification of the substance or mix	rture	
GHS-US classification		
Skin Irrit. 2 H315		
Eye Irrit. 2A H319		
STOT SE 3 H335		
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	
	H335 - May cause respiratory irritation	
Precautionary statements (GHS-US)	: P261 - Avoid breathing dust, fume, gas, mist, spray, vap	ours
	P264 - Wash hands thoroughly after handling	
	P271 - Use only outdoors or in a well-ventilated area	vo dovoo
	P280 - Wear eye protection, protective clothing, protective	ve gioves
	P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and	kaan comfortable for breathing
	P305+P351+P338 - If in eyes: Rinse cautiously with wate lenses, if present and easy to do. Continue rinsing	EI TOI SEVELAI MINULES. REMOVE CONTACT
	P312 - Call a doctor, a POISON CENTER if you feel unw	<i>i</i> ell
	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	
	P362 - Take off contaminated clothing and wash before r	
	P403+P233 - Store in a well-ventilated place. Keep conta	
	P405 - Store locked up	<u> </u>
	P501 - Dispose of contents/container to comply with app	licable local, national and international
	regulation.	
2.3. Other hazards		

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. Unknow No data available. Unknown acute toxicity (GHS-US)

SECTION 3: Composition/information on ingredients			
Name	Product identifier	%	GHS-US classification
Carbon (C)	(CAS No) 7440-44-0	35 - 45	Not classified
Aluminum oxide (Al O ₃)	(CAS No) 1344-28-1	15 - 25	Not classified
Carbonic acid, dipotassium salt (Na ₂ CO ₃)	(CAS No) 584-08-7	15 - 25	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium thiosulfate (Na ₂ S ₂ O ₃ ·5H ₂ O)	(CAS No) 7772-98-7	1 - 5	Not classified

SECTION 4: First aid measures	
4.1. Description of first aid measures	First sides Days therefore to a life system final
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). Call a physician immediately.
4.2. Most important symptoms and effect	
	 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 medica	I attention and special treatment needed : Treat symptomatically.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: If involved in a fire, flood with plenty of water. Coordinate firefighting measures to the fire surroundings.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the su	
	: This material does not contribute fuel when attacked by flame and emits only negligible amounts of smoke).
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 meas	sures
6.1. Personal precautions, protective eq	uipment 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.

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6.2.	Environmental precautions	
	:	None known.
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.
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Advice of	n 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
Requiren		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 ir	formation 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	ON 8: Exposure controls/persor	nal protection

s.r. Control parameters		
Aluminum oxide (1344-28-1)		
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

8.2. Exposure controls Appropriate engineering 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 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	: 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	

1.1. Information on basic physical and chemical properties		
Physical state (appearance)	: Solid, roughly spherical pellets or granules, 1/	16 - ¼" (1.6 – 6.4 mm) in diameter
Color	: Dark grey to 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	
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: No data available
: No data available
: No data available
: Not flammable under normal use conditions
: No data available
: No danger of explosion under normal conditions, high concentrations of carbon dust in the air
can form an explosive dust/air mixture.
: No data available
: 340°C
: No data available
: No data available
: No data available
: ca. 45 lb/ft³, 0.7210 g/cc, 721 kg/m³
: Partially soluble
: No data available
: Insoluble
: No data available
: No data available
: No data available

Other information 9.2.

: No data available.

SECT	ION 10: Stability and reactivity		
0.1.	Reactivity		
	-	: No dangerous reactivity under normal conditio	ns.
0.2.	Chemical stability		
		: The product is stable under normal conditions.	
0.3.	Possibility of hazardous reactions		
		: Fire may occur in contact with strong oxidizing	agents.
0.4.	Conditions to avoid		
		: Liquid water, moisture. Heat sources, open fla	mes and other ignition sources.
0.5.	Incompatible materials		
		: Strong oxidizing agents.	
0.6.	Hazardous decomposition products		
		: Carbon monoxide may be generated during co	ombustion of this material.
	ION 11: Toxicological information	on	
1.1.	Information on toxicological effects		
	num oxide (1344-28-1)	1	
LD ₅₀ o	ral rat	> 5,000 mg/kg	
Carbo	on (7440-44-0)	1	
LD ₅₀ o	ral rat	> 10,000 mg/kg	
Carbo	nic acid, dipotassium salt (584-08-7)		
LD ₅₀ oral rat		1,870 mg/kg	
ATE L	JS (oral)	1,870.000 mg/kg bodyweight	
Acute to	oxicity	: Based on available data, the classific	cation criteria are not met.
	and corrosivity	: Based on available data, the classific	cation criteria are not met.
ritatior			
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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 informat	ion	
12.1. Toxicity		
Acute Daphnia toxicity	: No data available.	
	. Na data availabla	
Algae toxicity	: No data available.	
12.2. Persistence and degradability		
	: No data available.	
12.3. Bioaccumulative potential		
12.5. Dioaccumulative potential	: No data available.	
12.4. Mobility in soil	No. John and the	
	: No data available.	
12.5. Results of PBT and vPvB assess	sment	
	: The components in this mixture do not meet the	e criteria for classification as PBT or vPvB.
12.6. Other adverse effects		
12.0. Other adverse effects	: No data available.	
SECTION 13: Disposal consideration	ions	
13.1. Waste treatment methods		
Advice on disposal	: Waste disposal should be in accordance with	
	control regulations. Spent media that has rem	
	specific hazards. Spilled product may be reco	
	liquids or been exposed to significant amounts	of gaseous contaminants.
Disposal of residues/unused products	: Dispose in a safe manner in accordance with	ocal/national regulations. Dispose of
	contents/container to an approved waste disp	
Disposal of packaging	: Dispose in a safe manner in accordance with contents/container to an approved waste disp	
SECTION 14: Transport informati		
SECTION 14: Transport informati		
14.1. Land transport (DOT) UN number	· None on finished product	
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	
14.2. 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)		
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 exc	cluded from listing, on the United States Environmental Protection Agency Toxic Substances
Control Act (TSCA) inventory.	
This product or mixture does not contain a toxic	c chemical or chemicals in excess of the applicable concentration as specified in 40 CFR
	ts of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and
40 CFR Part 372.	
Aluminum oxide (1344-28-1)	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 % (fibrous forms)
15.2. International regulations	
CANADA	
Aluminum oxide (1344-28-1)	
Listed on the Canadian DSL (Domestic Sustan	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Carbon (7440-44-0)	
Listed on the Canadian DSL (Domestic Sustan	· · · · · · · · · · · · · · · · · · ·
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Sodium thiosulfate (7772-98-7)	
Listed on the Canadian DSL (Domestic Sustan	ces List)
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Carbonic acid, dipotassium salt (584-08-7)	
Listed on the Canadian DSL (Domestic Sustan	ces List)
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
EU-Regulations	
Aluminum oxide (1344-28-1)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Carbon (7440-44-0)	
. ,	n Inventory of Existing Commercial Chemical Substances)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Sodium thiosulfate (7772-98-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Carbonic acid, dipotassium salt (584-08-7)	
Listed on the EEC inventory EINECS (Europea	n Inventory of Existing Commercial Chemical Substances)
15.2.2. National regulations	
Aluminum oxide (1344-28-1)	
Listed on the AICS (Australian Inventory of Che	
Listed on IECSC (Inventory of Existing Chemic Listed on the Japanese ENCS (Existing & New	
Listed on the Kerean ECL (Existing Chemicals	

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)

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Carbon (7440-44-0)

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)
Sodium thiosulfate (7772-98-7)
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 INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical
Carbonic acid, dipotassium salt (584-08-7)
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) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical

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	LC₅₀: 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:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory 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.