

SAFETY DATA SHEET

MSDS EU Template Version: 2.1 Date: August 1, 2022 Document Rev 2.1.0

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878, and United States Regulation 29 CFR 1910

1	Product identifier	
	Product Name	PP Blend, PP12 Blend, CPS Blend, CP Blend, CPS12 Blend, TriBlend, VOC Blend
	Product Code	PPBM, PP12BM, CPSBM, CPBM, CPS12BM, TBM, VOCBM
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.
3	Details of the supplier of the safety data sheet	
	Company Identification	Pure Air Filtration, LLC
	·····	6050 Peachtree Parkway
		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 (competent person)	ajameson@pureairfiltration.com
4	Emergency telephone number	CHEMTREC (international): +1 703-741-5970 (24 hour line)
	Emergency Phone No.	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
	SECTION 2: HAZARDS IDENTIFICATION	
1	Classification of the substance or mixture	
	GHS-US and Regulation (EC) No. 1272/2008 (CLP)	
	and most important hazards	Eye Irrit. 2; H319+H320
		Skin Irrit. 2 H315
		Resp Irrit H335
		Mixture itself in solid form causes little irritation, but if crushed or handled
		extensively, dust may evolve which can cause irritation to eyes and respiratory tract. Adding water can cause irritation to skin.
		If in a confined space, use appropriate safety precautions, as activated carbon
		can remove oxygen and cause hazard for workers in small space. Before entering space, check state and national guidelines for work in confined area.
2	Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
-		
	Product Name	PP Blend, PP12 Blend, CP Blend, CPS Blend, CP12 Blend, TriBlend

YOUR WORLD LEADER IN THE REMOVAL OF GASES, ODORS, & VAPORS



Hazard Pictogram(s)	
Signal Word(s)	Warning
Hazard Statement(s)	Skin Corr. 1A; H314 Eye Dam. 1; H318 Eye Irrit. 2; h319+H320 Skin Irrit. 2 h315
Precautionary Statement(s)	 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220: Keep away from clothing and other combustible materials. P235 + P410 - Keep cool. Protect from sunlight P260 - Do not breathe dust P264 - Wash face, hands, and any exposed skin thoroughly after handling P273: Avoid release to the environment. 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. P310: Immediately call a doctor. P362: Take off contaminated clothing and wash before reuse
Supplemental information	Not applicable.
Other hazards	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

*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).

3 SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2

2.3

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Aluminum oxide	44-75	1344-28-1	215-691-6	01-2119529248-35-XXXX	Not Classified
Carbon	18-48	7440-44-0	231-153-3	01-2119488716-22-XXXX	Not Classified
Potassium permanganate	2 - 6	7722-64-7	231-760-3	01-2119480139-34-XXXX	Ox. Sol. 2; H272 Acute Tox. 4;H302 Skin Corr. 1C;H314 Respiratory irritation H335
Sodium Hydroxide	0-4	1310-73-2	215-185-5	01-2119457892-27-XXXX	Acute Tox. 3 (Oral); H301 Skin and Eye Dam. 1A; H314 + 318

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4 SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed

Notes to a physician:

*Note: For full text of H phrases see section 16

5 SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media Suitable Extinguishing media
- Unsuitable extinguishing media5.2 Special hazards arising from the substance or mixture

Oxidizing

Advice for Fire Fighters

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. Ensure adequate ventilation. If swallowed then seek immediate medical assistance.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor. 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 POISON CENTER/doctor.

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 a POISON CENTER/doctor.

IF SWALLOWED: Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

Can cause skin and eye irritation. Treat symptomatically.

IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist.

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam, or water spray. Alcohol resistant foams (ATC type) are preferred.

Do not use water jet. Direct water jet may spread the fire.

May form explosive dust/air mixtures. May decompose if heated. Not flammable but will support combustion.

May intensify fire; some substances alone are oxidizers, while the mixture itself is not classified as an oxidizer. 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.

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Do not allow runoff from firefighting to enter drains or water courses. All contaminated wastewater must be processed in an industrial or municipal wastewater treatment plant.



6 SECTION 6: ACCIDENTAL RELEASE

6.1 Personal precautions, protective equipment, and emergency procedures

> Small spillages: Oxidizing

6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up

Small spillages:

6.4 Reference to other sections

7 SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Oxidizing

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

Incompatible materials

7.3 Specific end use(s)

Ensure operatives are trained to minimize exposures. 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 flames, and other ignition sources. No smoking.

Clean up spill with measures mentioned above. No extra measures necessary.

May intensify fire; some ingredients are oxidizers, even though mixture as a whole is not considered oxidizer. 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.

Collect spillage. Inform authorities if spill cannot be contained.

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. Dispose of this material and its container as hazardous waste.

Sweep up spilled substance and remove to safe place. Avoid dust generation. Damp down to avoid dust generation.

See Also Section: 8, 13

Ensure operatives 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. Do not store near combustible materials. Do not mix with combustible material. May intensify fire; some ingredients are oxidizers, even though mixture as a whole is not considered oxidizer. Take precautionary measures against static discharge.

Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation.

Keep only in the original container/package in a cool well-ventilated place. Should be stored inside, away from rainwater, etc.

Acids. Protect from moisture. Keep away from strong oxidizing substances. See Section: 1.2



8 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

- 8.1.1 Related to Substance- Aluminum Oxide
- 8.1.2 Related to Substance- Potassium Hydroxide
- 8.1.3 Occupational Exposure Limits

OSHA PEL (TWA) (15 mg/m3 total dust; 5 mg/m3 respirable fraction) ACGIH Ceiling (2mg/m3) Ireland HSA recommends the following limits for aluminum oxide dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 4 mg/m³ (8hr TWA) total respirable dust

Dust, or Particulates, Substance Not Otherwise Specified:

Austria MAK: 10 mg/m³, STEL 2x30 min, Inhalable dust 5 mg/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: 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 Product code: CI4 Product name: NORITÒ CI4 Revision date: 29-Jul-2016 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, 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

None Known

Not applicable

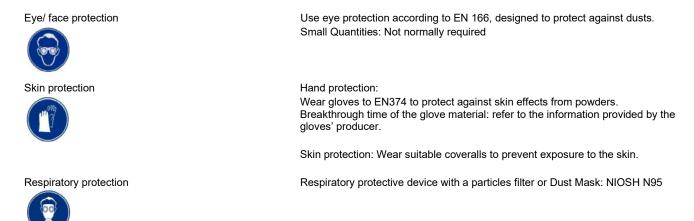
- 8.1.0 Biological limit value
- 8.1.1 PNECs and DNELs
- 8.2 Exposure controls
- 8.2.1 Appropriate engineering controls

Ensure operatives 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.

8.2.2 Individual protection measures, such as personal protective 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 concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.



8.2.3 Environmental Exposure Controls

Prevent release to the environment.



9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Color Odor Melting point/freezing point Not applicable. Flammability Lower and upper explosion limit Flash point Auto-ignition temperature **Decomposition Temperature** pН Kinematic viscosity Solubility Partition coefficient: n-octanol/water (log value) Vapor pressure Density and/or relative density Relative vapor density Particle characteristics

Solid cylindrical and spherical pellets Purple and black No odor Not applicable. Boiling point or initial boiling point and boiling range Not flammable Not explosive Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Partly soluble in water. Not applicable. Not applicable. ~ 40 lbs./ft3 , 640 kg/m3 Not applicable. Median Particle Diameter 4mm

9.2 Other information Oxidizing properties

The final product is considered to have no oxidizing properties and it should be classified as "not oxidizing" and "Not Division 5.1" following UN Handbook. A test according to UN Handbook 34.4.1 and GHS was performed and confirms this statement.

10 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 with strong acids or oxidizing agents
10.4	Conditions to avoid	Protect from moisture and damage.
10.5	Incompatible materials	Strong acids. Strong reducing and oxidizing agents.
10.6	Hazardous decomposition product(s)	Hazardous combustion products: Potassium Oxide, Manganese, oxides of
		manganese

11 SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on hazard classes as defined in
	Regulation (EC) No 1272/2008
	Acute toxicity - Ingestion

Acute toxicity - Inhalation

Acute toxicity - Skin Contact

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard

11.2 Information on other hazards

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11.2.1 Endocrine disrupting properties
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11.2.2 Other information

Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 > 20 ml/l Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day Mixture: Skin Irr 2 Mixture: Eye. Dam. 1; H318: Causes serious eye damage. Mixture: Based on available data, the classification criteria are not met. Mixture: Based on available data, the classification criteria are not met. Mixture: Based on available data, the classification criteria are not met. Mixture: Based on available data, the classification criteria are not met. Mixture: Based on available data, the classification criteria are not met.

Mixture: Based on available data, the classification criteria are not met. Mixture: Based on available data, the classification criteria are not met. Mixture: Not relevant – solid mixture

No substances identified as having endocrine-disrupting properties. No data available



12 SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	No data, but mixture is only partially (very small percentage) soluble in water
		No experimental data available.
12.2	Persistence and degradability	No data for the mixture as a whole.
	Potassium permangana	te Testing can be waived because the substance is an inorganic compound
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Potassium permangana	te Testing can be waived because the substance is an inorganic compound
12.4	Mobility in soil	No data for the mixture as a whole.
	Potassium permangana	te 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

13 SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Dispose of wastes in an approved waste disposal facility, in accordance with
	local laws	
	*Note that this is for the unused produ-	ct. Used product is a nonhazardous salt. See MSDS for used product.

14 SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	IATA/ICAO	US DOT 49 CFR 172.101	
14.1 14.2	UN number or ID number UN proper shipping name	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
14.3 14 4	Transport hazard class(es)					

- **14.4** Packing group
- 14.5 Environmental hazards
- **14.6** Special precautions for user
- **14.7** Maritime transport in bulk according to
- IMO \instruments
- **14.8** Additional Information

15 SECTION 15: REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

15.1.1	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
	Listed on EEC Inventory EINECS	
15.1.2	National regulations	
	Germany	Possible Water Hazard, unclassified
	United States	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
		RA Section 304 CERCLA
		Potassium Permanganate reportable quantity 100 lbs. (45.4 kg)
		RA Section 311/312 Hazards
	USA State Regulations	Air Act Section 112b; Cal. Proposition 65- no known cancer-causing ingredients
15.2	Chemical Safety Assessment	A chemical safety assessment is not required under REACH.



16 SECTION 16: OTHER INFORMATION

Full list of H Statements: Skin Corr. 1A; H314 Eye Dam. 1; H318 Eye Irrit. 2; h319+H320 Skin Irrit. 2 h315 Acute Tox. 3 (Oral); H301 Acute Tox 4; H302 Resp Irrit H335

The following sections contain revisions or new statements: Updated substance / mixture classification. Updated version and date. 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 Potassium permanganate (CAS No. 7722-64-7)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

LEGEND

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 Bioaccumulatve

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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