SAFETY DATA SHEET

Version: 5.0 Date: August 2026

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

Section 1: Identification		
1.1	Product Identifier Product Name	**PP Blend, PP12 Blend, TriBlend**
	Product Code	PPBM, PP12BM, TBM
1.2	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.
1.3	Company Identification Details of the supplier of the safety data sheet	**Pure Air Filtration, LLC** 6050 Peachtree Parkway Suite 240-187 Atlanta, GA 30092 USA
	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	info@pureairfiltration.com
1.4	Emergency telephone number	**VelocityEHS** 1-800-255-3924 (United States, Canada, Puerto Rico, U.S. Virgin Islands) +1-813-248-0585 (International, collect calls are accepted) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800-099-0731 (Mexico) *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

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Section 2: Hazard(s) Identification

2.1
Classification of the substance or mixture GHS-US and Regulation (EC) No. 1272/2008 (CLP) and most important Hazards

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.

2.2

Label Element:	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name:	PP Blend, PP12 Blend, TriBlend
Contains:	Aluminum Oxide, Activated Carbon, Potassium Permanganate, Sodium Hydroxide

Hazard Pictogram(s)



Signal Word(s) Warning

Hazard Statements

Eye Irrit. 2 H319 + H320
Skin Irrit. 2 H315
Resp. Irrit. H335

Precautionary Statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other i 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 Not Known.

2.3
Hazards not otherwise classified (HNOC) or not covered by GHS
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
If crushed or handled extensively, dust may evolve which can cause irritation to eyes and respiratory tract.

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Section 3: Composition/ Information on Ingredients

Chemical Name	%W/W	CAS No.	EC No.	Hazard Statement(s)
Aluminum oxide	50-75	1344-28-1	215-691-6	Not Classified
Carbon	20-40	7440-44-0	231-153-3	Not Classified
Potassium permanganate	2-6	7722-64-7	231-760-3	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Resp.1: H370 Aquatic Acute 1; H400; Aquatic Chronic 1; H410
Sodium hydroxide	<2	1310-73-2	215-185-5	Skin and Eye Dam. 1A; H314 + 318

Note: For full text of H phrases see Section 16.

Section 4: First-Aid Measures

4.1
Description of first aid measures

Self-protection of the first aider: 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.

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 doctor and/or poison control center.

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 doctor and/or poison control center.

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

IF SWALLOWED: Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a doctor and poison control center.

4.2
Most important symptoms and effects, both acute and delayed.
Causes skin and eye irritation. See Section 11 for additional Toxicological information.

4.3
Indication of any immediate medical attention and special treatment needed.
Notes to a physician: Treat symptomatically. IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist.

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Section 5: Fire-Fighting Measures

5.1
Suitable extinguishing media
As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam, or water spray.
Unsuitable extinguishing media
Do not use high-pressure water jets that may scatter combustible dust.
Do not use halogenated extinguishing agents.
Do not use sawdust, paper, or other combustible absorbents in fire response.

5.2
Special Hazards arising from the substance or mixture
May decompose if heated. Not flammable but will support combustion.

Oxidizer characteristics
Contains an oxidizing substance (potassium permanganate). May intensity fire. 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.

5.3
Advice for firefighters
Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Do not allow run-off from fire-fighting to enter drains or water courses. All contaminated wastewater must be processed in an industrial or municipal wastewater treatment plant.

Section 6: Accidental Release

6.1
Personal precautions, Protective Equipment, and Emergency Procedures
Ensure operatives are trained to minimize exposure. 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 flame and other ignition sources. No smoking.

Small spillages
Clean up spill immediately. No extra measures necessary.

Oxidizer characteristics
Contains an oxidizing substance (potassium permanganate). 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.

6.2
Environmental precautions
Collect spillage. Avoid release to the environment. Do not allow to enter drains, sewers, or watercourses.

6.3
Methods and material for containment and cleaning up
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.

Small Spillages
Sweep up spilled substance and remove to safe place. Do not use saw dust. Avoid dust generation. Damp down to avoid dust generation.

6.4
Reference to other sections
See also Section 8, 13

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Section 7: Handling and Storage

7.1
Precautions for safe handling
Ensure operators 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.

Oxidizer characteristics
Contains an oxidizing substance (potassium permanganate). Do not store near combustible materials. Do not mix with combustible material. Take precautionary measures against static discharge.

7.2
Conditions for safe storage, including any incompatibilities.
Do not store near combustible materials. Do not mix with combustible material.
Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

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

Incompatible materials
Protect from moisture. Keep away from acids, reducing agents, strong oxidizing substances, and combustible materials.

7.3
Specific end use(s)
See Section 1.2.

Section 8: Exposure Controls / Personal Protection

8.1
Control Parameters
Related to Substance – Aluminum Oxide
OSHA PEL: 15 mg/m^3 (8hr TWA) as Total dust; 5 mg/m^3 (8hr TWA) as Respirable dust
ACGIH TLV: 1 mg/m³ TWA respirable.

Related to Substance – Activated Carbon
OSHA PEL 15 mg/m^3 TWA total; 5 mg/m^3 TWA respirable
CGIH TLV: no specific TLV for activated carbon; PNOS — 10 mg/m³ inhalable,

Related to Substance – Potassium permanganate
OSHA PEL: 5 mg/m³ CEILING (as Mn) per 29 CFR 1910.1000.
ACGIH TLV (2024): 0.02 mg/m³ TWA respirable (as Mn); 0.1 mg/m³ TWA inhalable (as Mn).
DNEL (worker, inhalation, long-term, ECHA): 0.05 mg/m³ (as Mn).

Related to Substance – Sodium hydroxide
OSHA PEL:2 mg/m³ Ceiling.
ACGIH TLV: 2 mg/m³ Ceiling.

Occupational Exposure Limits
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; 1.25mg/m³, Respirable fraction
Hong Kong: 10 mg/m³, TWA
Ireland PELs: 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
Malaysia: 10 mg/m³, TWA Inhalable; 3 mg/m³, TWA Respirable

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The Netherlands: 3.5 mg/m³, Inhalable
Spain: 10 mg/m³, VLA, Inhalable; 3 mg/m³, VLA, Respirable
Sweden: 10 mg/m³, NGV, Total inhalable; 5 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

Biological Limit Value:
None Known

PNECs and DNELs
Not Applicable

8.2
Exposure Controls
Appropriate Engineering Controls
Ensure operators 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.

8.3
Environmental Exposure Controls
Prevent release to the environment.

8.4
Personal Protection 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 the concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye / Face Protection	Hand & Skin Protection	Respiratory Protection
Use eye protection according to EN 166, designed to protect against dust. **For Small Quantities:** Not Normally Required	Wear gloves to EN374 to protect against skin effects from powders. Wear suitable coveralls to prevent exposure to the skin.	Respiratory protective devices may be necessary if local exhaust ventilation is not adequate.

Thermal hazards
Exothermic reaction with acids or reducing agent. Wear a Heat Protective Suit.

Section 9: Physical and Chemical Properties

9.1
Basic physical and chemical properties

Physical state:	Solid cylindrical and spherical pellets
Color:	Purple and black
Odor threshold:	Not applicable- material is odorless.
Melting point/melting range	Not applicable
Boiling point/boiling range:	Not applicable
Evaporation rate:	Not applicable
Flammability:	Not flammable
Lower and upper explosion limits:	Not explosive.
Flash point:	Not applicable
Auto ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	Not available

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Kinematic viscosity:	Not applicable
Solubility:	Partially soluble in water
Partition coefficient n-octanol/water (log value):	Not applicable
Vapor pressure:	Not available – solid
Vapor density:	Not applicable
Bulk Density:	40-50 lbs/ft^3, 640-800 kg/m^3
Relative density:	Not available
Particle Characteristics:	Median particle diameter 4mm

9.2
Other Information

Oxidizing Properties:	Contains an oxidizing substance (potassium permanganate). 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.

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 in contact with acids, strong oxidizing agents, or reducing agents.

10.4
Conditions to avoid
Protect from moisture, heat sources, open flames, and other ignition sources.
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10.5
Incompatible materials
Strong acids. Strong reducing and oxidizing agents. Combustible materials.

10.6
Hazardous decomposition products
Potassium oxide, manganese, oxides of manganese.

Section 11: Toxicological Information

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

Acute toxicity – Ingestion:	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day.
Acute toxicity – Inhalation:	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 >20ml/l
Acute toxicity – Skin contact:	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/Kg bw/day.
Skin corrosion/irritation:	Skin. Irrit. 2 H315
Serious eye damage/irritation:	Eye Irrit2; H319 +320
Respiratory or skin sensitization:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT – single exposure:	Based on available data, the classification criteria are not met.
STOT – repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Not relevant -solid mixture

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11.2
Numerical toxicity values for hazardous ingredients

- **Aluminum oxide (Al_2O_3) (CAS 1344-28-1):**
  LD50 oral (rat) > 5,000 mg/kg
  LC50 inhalation (rat, 4-hr) > 2.3 mg/L
  LD50 dermal > 2,000 mg/kg

- **Activated carbon (CAS 7440-44-0):**
  LD50 oral (rat) > 10,000 mg/kg
  Inhalation — waived based on physical form.
  LD50 dermal > 2,000 mg/kg

- **Potassium permanganate ($KMnO_4$) (CAS 7722-64-7):**
  LD50 oral (rat) = 1,090 mg/kg
  LC50 inhalation: No reliable acute inhalation LC50 available.
  LD50 dermal (rabbit) > 2,000 mg/kg

- **Sodium hydroxide (NaOH) (CAS 1310-73-2):**
  LD50 acute oral — testing waived (Skin Corr 1A; ECHA).
  Inhalation — waived due to corrosivity (ECHA).
  Dermal LD50 — waived due to skin corrosivity (ECHA)

11.3
Carcinogen listing status
Aluminum oxide — NTP: Not listed. IARC: Not listed. OSHA: Not regulated as a carcinogen.
Activated carbon — NTP: Not listed. IARC: Not listed (activated carbon itself). OSHA: Not regulated as a carcinogen.
Potassium permanganate — NTP: Not listed. IARC: Not listed. OSHA: Not regulated as a carcinogen.
Sodium hydroxide — NTP: Not listed. IARC: Not listed. OSHA: Not regulated as a carcinogen.

11.4
Information on other hazards
Endocrine disrupting properties: No substances identified as having endocrine-disrupting properties.
Other information: No data available.

Section 12: Ecological Information

12.1
Toxicity
Contains potassium permanganate toxic to aquatic life.
Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.
LC50 (Fish): 0.3mg/L – 3.9 mg/L.
No data is available for the mixture. Mixture is only partially (very small percentage) soluble in water.

12.2
Persistence and degradability
No data is available for the mixture. Potassium permanganate Testing can be waived because the substance is an inorganic compound.

12.3
Bioaccumulation
No data is available for the mixture. Potassium permanganate Testing can be waived because the substance is an inorganic compound.

12.4
Mobility in soil
No data is available for the mixture. Potassium permanganate 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.

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12.6
Endocrine Disrupting Properties
No substances identified as having endocrine-disrupting properties.

12.7
Other Adverse Effects
None known.

Section 13: Disposal Considerations

Waste Disposal Methods
Waste disposal should be in accordance with existing federal, state, and local environmental control regulations. Avoid release to the environment.

Section 14: Transport Information

14.1
Transportation Information

	ADR/RID/DOT	IMDG	IATA/ICAO
UN Number or ID Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	Not assigned	Not assigned	Not assigned
Transport Hazard Class(es)	None	None	None
Packing Group	None	None	None
Environmental Hazards	No	No	No
Special Precautions for User	None known	None known	None known

14.2
Maritime transport in bulk according to IMO instruments
The media contains activated carbon, which is produced by a steam activation process. Because of this the media is not subject to the provisions of the International Dangerous Goods Code (IMGD) or the labeling and packaging requirements of the International Maritime Organization (IMO) Class 4.2.

14.3
Additional information
Not applicable.

Section 15: Regulatory Information

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

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
CERCLA Section 103: Potassium Permanganate reportable quantity (RQ) 100 lbs (45.4 kg); Sodium Hydroxide RQ 1000 lbs (453.6 kg).
SARA Title III Section 302: Potassium Permanganate: Extremely Hazardous Substance — Threshold Planning Quantity (TPQ) 100 lbs (45.4 kg).
EPCRA Section 311/312 Hazards: Potassium permanganate: fire hazard, immediate (acute) health hazard, delayed health hazard. Sodium Hydroxide: strong base and can cause severe burns to skins and eyes; corrosive.

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EPCRA Section 313 Toxic Release inventory: Contains a reportable manganese compounds category (313c) constituent Potassium permanganate.

USA State Regulations
Air Act Section 112b; Cal. Proposition 65- No known cancer-causing ingredients.

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

15.2
Chemical Safety Assessment
A chemical safety assessment is not required under REACH.

Section 16: Other Information

The following sections contain revisions or new statements: Updated substance / mixture classification. 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.

Date of last revision: 2026-08-31

16.1
The H-statements listed below apply to individual ingredients at pure-substance concentration. For the classification of this mixture as supplied, see Section 2.

Full list of H Statements

Ox. Sol. 2; Oxidizing solid, Category 2;	H272: May intensify fire; oxidizer.
Acute Tox. 4; Acute Toxicity, Category 4;	H302: Harmful if swallowed.
Skin Corr. 1C; Skin corrosion/irritation, Category 1C	H314: Causes severe skin burns and eye damage.
Skin Irrit. 2; Skin irritation, Category 2	H315: Causes skin irritation.
Eye Dam. 1; Eye damage, category 1	H318: Causes serious eye damage.
Eye Irrit. 2; Eye irritation, Category 2	H319 + H320: Causes serious eye irritation and causes eye irritation.
Resp. Irrit.; Respiratory irritation	H335: May cause respiratory irritation.
Resp.1; Respiratory System damage, category 1	H370: Causes damage to respiratory system through prolong or repeated exposure.
Aquatic Acute 1; Hazardous to the aquatic environment, acute, Category 1	H400: Very toxic to aquatic life.
Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic, Category 1	H410: Very toxic to aquatic life with long lasting effects.

16.2
LEGEND for acronyms used in this SDS / MSDS

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
DNEL	Derived no effect level
EC50	Half maximal effective concentration

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ECHA	European Chemicals Agency
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
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
NMFC	National Motor Freight Classification
NIOSH	National Institute for Occupational Safety and Health
OEL	Occupational exposure limits
PBT	Persistent, Bio accumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
PNOR	Particulates Not Otherwise Regulated
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	Regulations concerning the international railway transport of dangerous goods STEL Short term exposure limit
RoC	Report on Carcinogens
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
vPvB	very Persistent and very bioaccumulative.

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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