# 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<br>Product Name | **CPS12 Blend (SP)** |
| | Product Code | CPS12BM |
| **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**<br>6050 Peachtree Parkway<br>Suite 240-187<br>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**<br>1-800-255-3924 (United States, Canada, Puerto Rico, U.S. Virgin Islands)<br>+1-813-248-0585 (International, collect calls are accepted)<br>1-300-954-583 (Australia)<br>0-800-591-6042 (Brazil)<br>400-120-0751 (China)<br>000-800-100-4086 (India)<br>800-099-0731 (Mexico)<br><br>*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**

Eye Irritant, Category 2
Skin Irritant, Category 2
Resp. Irritant, Category 3

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:** | CPS12 Blend (SP) |
| **Contains:** | Aluminum Oxide, Activated Carbon, Sodium Permanganate |

**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 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** None 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.


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## Section 3: Composition/ Information on Ingredients

| Chemical Name | %W/W | CAS No. | EC No. | Hazard Statement(s) |
|---|---|---|---|---|
| Aluminum oxide | 30-60 | 1344-28-1 | 215-691-6 | Not Classified |
| Activated carbon | 40-70 | 7440-44-0 | 231-153-3 | Not Classified |
| Sodium permanganate | 4-6 | 10101-50-5 | 233-251-1 | Ox. Sol. 2; H272<br>Acute Tox. 4; H302<br>Skin Corr. 1C; H314<br>Eye Damage H318<br>Aquatic Chronic 1; H410 |

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.

## 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 water jets. Direct water jet may spread the fire.
Do not use halogenated extinguishing agents (may react with permanganate).
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.


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**Oxidizer characteristics**
Contains an oxidizing substance (sodium permanganate). The product is classified as "Not Oxidizing Solid of Division 5.1" per the requirements of the UN/DoT standard. 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**
**Special protective equipment 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 (sodium 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

## 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 (sodium permanganate). Do not store near combustible materials. Do not mix with combustible material. Take precautionary measures against static discharge.


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**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.
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.

**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 (TWA) (15 mg/m³ total dust; 5 mg/m³ respirable fraction)
ACGIH TLV-TWA 1 mg/m³ (respirable)

**Control Parameters Related to Substance – Activated Carbon**
OSHA PEL (TWA) (15 mg/m³ total dust; 5 mg/m³ respirable fraction)

**Control Parameters Related to Substance – Sodium 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/m$^3$ (as Mn).

**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; 1.25 mg/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
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.


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**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 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.<br><br>**For Small Quantities:**<br>Not Normally Required | Wear gloves to EN374 to protect against skin effects from powders.<br><br>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 available |
| **Evaporation rate:** | Not applicable – solid granular sorbent |
| **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 |
| **Kinematic viscosity:** | Not applicable |
| **Solubility:** | Partially soluble in water |
| **Partition coefficient** n-octanol/water (log value): | Not applicable |
| **Vapor pressure:** | Not applicable |
| **Vapor density:** | Not applicable |
| **Bulk Density:** | ~ 40 lbs/ft$^3$, 640 kg/m$^3$ |
| **Relative density:** | Not available |
| **Particle Characteristics:** | Median particle diameter 4mm |

**9.2**
**Other Information**
**Oxidizing Properties:** Contains an oxidizing substance (sodium permanganate).


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## 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 strong acids, strong oxidizing agents, or reducing agents.

**10.4**
**Conditions to avoid**
Protect from moisture, heat sources, open flames, and other ignition sources.
.

**10.5**
**Incompatible materials**
Acids. Strong reducing and oxidizing agents. Combustible materials.

**10.6**
**Hazardous decomposition products**
Sodium 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.<br>Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day. |
| **Acute toxicity – Inhalation:** | Based on available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: LC50 >20ml/l |
| **Acute toxicity – Skin contact:** | Based on available data, the classification criteria are not met.<br>Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/Kg bw/day. |
| **Skin corrosion/irritation:** | Skin. Irrit. 2 H315 |
| **Serious eye damage/irritation:** | Eye Irrit. 2 H319 + H320. |
| **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 |

**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 — Study waived based on physical form of the substance.
LD50 dermal > 2,000 mg/kg
• Sodium permanganate ($NaMnO_4$) (CAS 10101-50-5):
LD50 oral (rat) = 750 mg/kg (ECHA read-across from $KMnO_4$).
LC50 inhalation: No reliable acute inhalation LC50 available.
LD50 dermal (rabbit) > 2,000 mg/kg (ECHA read-across from $KMnO_4$).


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**11.3 Carcinogen 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.
Sodium permanganate — 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 sodium permanganate toxic to aquatic life.
Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.
LC50 (Fish): 0.5mg/L – 2.0 mg/L.
No data is available for the mixture.But mixture is only partially (very small percentage) soluble in water.

**12.2**
**Persistence and degradability**
No data is available for the mixture. Sodium permanganate testing can be waived because the substance is an inorganic compound.
**12.3**
**Bioaccumulation**
No data is available for the mixture. Sodium permanganate testing can be waived because the substance is an inorganic compound.

**12.4**
**Mobility in soil:**
No data is available for the mixture. Sodium 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.

**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.


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## 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 50% 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**
**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: Sodium permanganate reportable quantity (RQ) 100 lbs (45.4 kg).
EPCRA Section 311/312 Hazards: Sodium permanganate: fire hazard, immediate (acute) health hazard, delayed health hazard.
EPCRA Section 313 Toxic Release inventory: Contains a reportable manganese compounds category (313c) constituent Sodium permanganate.
SARA Title III Section 302: Sodium Permanganate: Extremely Hazardous Substance — Threshold Planning Quantity (TPQ) 100 lbs (45.4 kg)

**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.


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## 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 Sodium permanganate (CAS No. 10101-50-5)

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 |
| **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 |


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| | |
|---|---|
| **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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