



SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

| | |
|-------------------------|--|
| Product number and name | 98003 PRATLEY SUPERGLUE, 3g bottle for display 98004 PRATLEY SUPERGLUE, 20g bottle 98007 PRATLEY SUPERGLUE, 3g bubble pack 98008 PRATLEY SUPERGLUE SINGLE USE, 4×1g bubble pack 98009 PRATLEY SUPERGLUE GEL, 3g bubble pack |
| Product type | Liquid for adhesive system |

1.2 Relevant identified uses of the substance or mixture and uses advised against

| | |
|--------------------------|--|
| Relevant identified uses | Consumer use |
| Uses advised against | No specific uses advised against. Avoid skin and eye contact, inhalation of vapours or ingestion. |

1.3 Details of Supplier of Safety Data Sheet

| | |
|----------------------------------|---|
| Manufactured by | Pratley Polymers Manufacturing (Proprietary) Ltd 14 Jackson Street, Factoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 www.pratleyadhesives.com |
| Supplied in South Africa by | Pratley (Proprietary) Ltd 14 Jackson Street, Factoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 sales@pratley.com www.pratleyadhesives.com |
| Supplied outside South Africa by | Pratley Exporting (Proprietary) Ltd 14 Jackson Street, Factoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 exports@pratley.com www.pratleyadhesives.com |

1.4 Emergency Telephone Number

| | |
|--------------|--|
| South Africa | +27-11-955-2190 during office hours 10117 All emergencies +27-21-689-5227 Poisons Information Centre |
|--------------|--|

Europe 112 All emergencies

For detailed poison information, the national poison centre, if available, should be contacted.

United Kingdom 999 All emergencies

111 (NHS, England, NHS 24, Scotland or NHS Direct, Wales),

0808 808 8000 (Lifeline, N. Ireland)

01 809 2166 (National Poison Information Centre, Republic of Ireland)

Australia 000 All emergencies

13 11 26 NSW Poison Information Centre

New Zealand 111 All emergencies

0800 764 766 National Poisons Centre (poisons@otago.ac.nz)

Americas 911 All emergencies

1-800-222-1222 Poisons Help (PoisonHelp.org)

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification

| Class | Category | Hazard Code and Statement | |
|-----------------------------|----------|---------------------------|----------------------------------|
| Flammable | 4 | H227 | Combustible liquid. |
| Skin Corrosion / Irritation | 2 | H315 | Causes skin irritation. |
| Eye Corrosion / Irritation | 2 | H319 | Causes serious eye irritation. |
| STOT-SE | 3 | H335 | May cause respiratory irritation |

2.1.2 Additional Information

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.

2.2 Label Elements

Hazard Pictogram(s),
Signal Word and
Ingredients



WARNING

Ethyl 2-cyanoacrylate

The technical name has been replaced on the label by a name / identification that is easier for a consumer to identify. See section 16 for a comparison of the technical and alternative names used.

Hazard Statements

H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 **May cause respiratory irritation**

Obligatory
Statements

EUH202 **Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.**

Precautionary
Statements

P101 **If medical advice is needed, have product container or label at hand.**

P102 **Keep out of reach of children.**

P103 **Read label before use.**

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| | |
|--------------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/eye protection. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water/... |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor/ ... if you feel unwell. |
| 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/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P370 + P378 | In case of fire: Use... to extinguish |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local regulations. |

Only the hazard statements and Precautionary statements in bold text have been included on the label in accordance with the allowed omissions set out in the ECHA Guidance on Labelling and Packaging.

2.3 Other Hazards

None known.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

| Hazardous Ingredients | % [weight] | CAS No. EC No. Index No. | SCL, M-Factors, ATE | Classification | H / EUH Code(s) |
|-----------------------|--|--|------------------------------|---|--|
| ethyl-2-cyanoacrylate | 97 – 100 for liquids 87 – 90% for gel | 7085-85-0 230-391-5 607-236-00-9 | STOT SE 3; H335: C ≥ 10 % | Flammable – 4 Skin Corrosion – 2 Eye Corrosion – 2 STOT-SE – 3 | H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children. |

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SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

SKIN Do not touch anything and do not let adjacent fingers touch each other. The liquid will cure to a flexible film which can be removed by soaking in hot water or can be allowed to peel off naturally. The liquid can become hot when curing especially when in contact with clothing. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

EYE Immediately flush eyes with plenty of water. Continue to rinse for at least 10 minutes. Do not try to open the eyelid by manipulation; the liquid attaches to the eye protein but will dissociate from it over the next several hours. Apply a gauze patch and get medical attention.

INHALATION Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

INGESTION Make sure that breathing passages are not obstructed. The product will solidify in the mouth, making it almost impossible to swallow. Saliva will separate the solid product from the mouth. Wash out mouth with water. Move exposed person to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

4.2 Most important symptoms and effects, both acute and delayed

SKIN Bonds skin in seconds. May cause thermal burns when curing on skin especially in contact with clothing.

EYE Bonds eyes in seconds. No permanent damage expected.

INHALATION May cause irritation.

INGESTION No known significant effect or critical hazards.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing Media

SUITABLE Water fog, foam, extinguishing powder, or carbon dioxide.

NOT SUITABLE Do not use water jet.

5.2 Special Hazards arising from the Substance or Mixture

HAZARDS FROM THE SUBSTANCE / MIXTURE Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS Carbon oxides, halogenated compounds.

5.3 Advice for Firefighters

SPECIAL PRECAUTIONS FOR FIREFIGHTERS Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation.

6.1.1 For non-emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

SKIN General purpose non-permeable gloves and overalls. Do not use PVC, nylon, or cotton.

FACE / EYES Safety goggles.

CLOTHING No special requirements. Wash clothing thoroughly if contaminated.

VENTILATION If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

6.1.2 For emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

SKIN General purpose non-permeable gloves and overalls. Do not use PVC, nylon, or cotton.

FACE / EYES Safety goggles.

CLOTHING No special requirements. Wash clothing thoroughly if contaminated.

VENTILATION If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

6.2 Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, air). May be harmful to the environment if released in large quantities.

6.3 Method and material for containment and cleaning up

6.3.1 Containment procedure

For small spills, wipe up with a cloth and immediately immerse in water to cause polymerization and avoid autoignition. For large spills, do not use cloths for mopping up or containing. Flood with water to cause polymerization and scrape off surface.

6.3.2 Clean-up procedure

Small amounts should be collected and cured by immersing in water and then disposed of in accordance with local regulations.

Large amounts would need to be disposed of in accordance with local regulations.

6.3.3 Additional Information

See SECTION 13 for disposal considerations.

6.4 Reference to other sections

See SECTION 13 for disposal considerations.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for Safe handling

7.1.1 Recommendations for safe handling and storage

Do not eat, drink or smoke where this material is stored. Avoid release to the environment. Keep in the original container and keep tightly closed when not in use. Empty containers retain product residue and may be hazardous. Do not reuse containers.

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7.1.2 Advice on general occupational hygiene

Put on appropriate personal protective equipment (see SECTION 8). Do not eat, drink, or smoke when working with this material. Wash hands and face before eating, drinking, or smoking. Persons with a history of skin sensitization problems should not use this product. Do not get in eyes. Avoid skin contact as much as possible. Do not ingest. Avoid breathing vapours.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in the original container protected from sources of ignition or sunlight in a dry, cool (10-30°C) and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Incompatible Materials: Strong oxidizing agents, strong reducing agents, bases, and powdered metals, especially aluminium and zinc.

Packaging Material: Use original container.

7.3 Specific end use(s)

Not applicable.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control Parameters

The DNEL (Derived No-Effect Level) for humans by inhalation, ingestion and dermal routes of exposure and the PNEC (Predicted No-Effect Concentration) for environmental exposure given below are not intended to be directly used for setting workplace or general population exposure limits. Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health based-OEL for that chemical substance. Further, although DNELs (and PNEC's) are an indication of setting risk measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed government OELs.

DNEL

| Ingredient (CAS No.) | Route of exposure | | Exposure Limit | |
|--------------------------------------|-------------------|----|------------------------------|------------------------------|
| | | | Workers | Consumers |
| ethyl-2-cyanoacrylate (7085-85-0) | Oral | ST | Not applicable. | No hazard identified |
| | | LT | Not applicable | No hazard identified. |
| | Dermal | ST | No hazard identified. | No hazard identified. |
| | | LT | No hazard identified. | No hazard identified. |
| | Inhalation | ST | DNEL: 9.25 mg/m ³ | DNEL: 9.25 mg/m ³ |
| | | LT | DNEL: 9.25 mg/m ³ | DNEL: 9.25 mg/m ³ |

PNEC

| Fresh water | Freshwater sediments | Marine water | Marine water sediments | Food chain | Sewage treatment | Soil (agricultural) | Air | Intermittent releases |
|-----------------------------------|----------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| ethyl-2-cyanoacrylate (7085-85-0) | | | | | | | | |
| Testing not feasible | Testing not feasible | Testing not feasible | Testing not feasible | Testing not feasible | Testing not feasible | Testing not feasible | No hazard identified | Testing not feasible |

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8.2 Exposure Controls

8.2.1 Appropriate engineering controls

None required. Use in a well-ventilated area. If ventilation is poor use a self-contained breathing apparatus.

8.2.2 Personal Protection

Skin General purpose non-permeable gloves and overalls. Do not use PVC, nylon or cotton.

Face / Eye Avoid eye contact. Do not touch or rub eyes after contact with product. Wash hands thoroughly with soap and water first.

Inhalation Use outdoors or in a well-ventilated area.

Ingestion Do not eat, drink, or smoke while working with this product. Wash hands thoroughly with soap and water after using this product. Keep away from children.

Thermal None required when used as instructed.

Other Always wash hands with soap and water after use.

8.2.3 Environmental Protection

Avoid release to the environment. Contain and dispose of in accordance with local regulations.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on physical and chemical properties

| | |
|--|---|
| Physical State | Liquid |
| Colour | Transparent |
| Odour | Pungent |
| Melting point / Freezing point (°C) | No data available. |
| Boiling point, initial and range (°C) | >190 °C @ 100.3 kPa |
| Flammability | Not flammable. May be combustible at high temperatures. |
| Explosion / Flammability limits | Not explosive. |
| Flash point (°C), closed cup | >80 °C @ 101.3 kPa |
| Auto-ignition temperature (°C) | 480 °C @ 101.3 kPa |
| Decomposition temperature (°C) | No data available. |
| pH | No data available. |
| Kinematic Viscosity (at 23°C) | 5-120 cSt for liquids, 90000-13000 cSt for gel |
| Solubility | Reacts with water. 24 µg/L @ 20 °C |
| Partition co-efficient : n-octanol / water | No data available. |
| Vapour pressure | 21 Pa @ 20 °C for ethyl-2-cyanoacrylate |
| Density and/or Relative density (at 23°C) | 0,9-1.1 g/cm ³ |
| Relative Vapour density | No data available. |
| Particle characteristics | Not applicable. |

9.2 Other information

9.2.1 Information with regards to physical Hazard Classes

No additional information available.

9.2.2 Other Safety Characteristics

No additional information available.

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SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Hazardous reactions may occur under certain conditions of storage or use.

10.4 Conditions to Avoid

Spontaneous polymerization.

10.5 Incompatible Materials

Water, amines, alkalis, and alcohols.

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 – TOXOLOGICAL INFORMATION

11.1 Information on Hazard Classes

| Ingredient (CAS No.) | Toxicological effect | Findings |
|--------------------------------------|--|--|
| ethyl-2-cyanoacrylate (7085-85-0) | Acute Toxicity - oral | No data available. |
| | Acute Toxicity - dermal | No data available. |
| | Acute Toxicity - inhalation | No data available. |
| | Skin Corrosion/ Irritation | Adverse effects observed – irritating. |
| | Serious Eye Damage/ Irritation | Adverse effects observed – irritating. |
| | Skin Sensitizer | No data available. |
| | Respiratory Sensitizer | No data available. |
| | Germ Cell Mutagenicity | IN-VITRO: no effective observed |
| | Carcinogenicity | No data available. |
| | Reproductive Toxicity | No data available. |
| | Developmental / Teratogenetic Toxicity | No data available. |
| | STOT - Single Exposure | No data available. |
| | STOT - Repeated Exposure | No data available. |
| Aspiration Hazard | No data available. | |

11.2 Information on Other Hazards**11.2.1 Endocrine Disrupting Properties**

Not listed as an endocrine disruptor on EDL List I (identified) List II (under evaluation for) or List III (has ED properties).

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11.2.2 Other Information

None known.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Not classified as Toxic to aquatic life.

Please see Section 8.1 for PNECs on individual ingredients.

12.2 Persistence and Biodegradability

No data available.

12.3 Bioaccumulative Potential

No bioaccumulation potential.

12.4 Mobility in Soil

Mobile in soil but is likely to cure before extensive dissemination.

12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out. Based on the ingredients which have a low potential to bioaccumulate, it is expected that this product is not a PBT.

12.6 Endocrine Disrupting Properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in Section B of Regulation (EU) No 2017/100.

12.7 Other Adverse Effects

None known.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material (uncured) and its container must be disposed of in a safe way.

Small amounts (during personal use) Allow to react with atmospheric moisture or Powda Bond Powder, then dispose of in accordance with local regulations.

Large amounts Contain and dispose of in accordance with local regulations. Mixing large amounts of Powda Bond Liquid and Powder together creates an exothermic reaction and care should be taken to avoid uncontrolled heating and possible fire.

EWC 20 01 27 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS: separately collected fractions: paint, inks, adhesives and resins containing dangerous substances

SECTION 14 – TRANSPORT INFORMATION

| | 14.1 UN Number | 14.2 UN Proper Shipping Name | 14.3 Transport Hazard Class | 14.4 Packing Group |
|-----------|----------------|--|-----------------------------|--------------------|
| ADR | | <i>Not classified as hazardous.</i> | | |
| RID | | <i>Not classified as hazardous.</i> | | |
| ADN | | <i>Not classified as hazardous.</i> | | |
| IMO/IMDG | | <i>Not classified as hazardous.</i> | | |
| ICAO/IATA | UN3334 | AVIATION REGULATED LIQUID, N.O.S. ethyl-2-cyanoacrylate | 9 | III |

14.5 Environmental Hazards

Not classified as hazardous to the environment.

14.6 Special Precautions for User

None known.

14.7 Maritime Transport in Bulk According to IMO instruments

Not applicable as never transported in bulk.

SECTION 15 – REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH EC1907/2006 Annex XIII, XIV, XVII The substance(s) in this product are not listed / not subject to restrictions.

International Agency for Research on Cancer (IARC) The substance(s) in this product are not listed / not subject to restrictions.

Australia Inventory of Industrial Chemicals (AIIC) The substance(s) in this product are listed.

New Zealand Inventory (NZIoC) The substance(s) in this product are listed.

Canada Domestic Substances List (DSL) / Non-Domestic Substance List (NDSL) The substance(s) in this product are listed.

United States Inventory (TSCA) The substance(s) in this product are listed.

California Proposition 65 The substance(s) in this product are not listed / not subject to restrictions.

Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act (CAA) The substance(s) in this product are not listed / not subject to restrictions.

15.2 Chemical Safety Assessment

Not yet done.

SECTION 16 – OTHER INFORMATION

Alternative names used on consumer packaging:

| CAS No. | Ingredient Name (IUPAC) | Name used on Consumer Packaging |
|-----------|-------------------------|---------------------------------|
| 7085-85-0 | ethyl-2-cyanoacrylate | ethyl-2-cyanoacrylate |

Changes from previous version:

| Date changed | Section | Changes |
|--------------|-------------|--|
| 2024.07.18 | | Update. No changes. |
| 2022.06.01 | 2, 3, 8, 11 | Re-evaluated hazard after additional training. 1 Confirmed emergency contact details. 15 Confirmed regulatory information and added information for several regulations. 16 Added list of abbreviations used. |
| 2018.09.27 | 14 | Added UN Number, description and packing group. |
| 2016.01.14 | | Updated to GHS. |

Abbreviations used:

| | |
|----------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioaccumulation Factor |
| CAS No. | Chemical Abstract Services Number |
| DNEL | Derived no-effect level |
| EC3 | Effective concentration required to produce a three-fold increase in the stimulation index |
| EC No. | European Community Number |
| ECHA | European Chemicals Agency |
| EWC | European Waste Code |
| GCL | Generic concentration limit |
| GLP | Good Laboratory Practice |
| HSNO | Hazardous Substances and New Organisms Act |
| IATA | International Air Transport Association |
| IBC | International Bulk Container |
| ICAO | International Civil Aviation Authority |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| LD50 | Lethal dose to 50% of test population |
| LLNA | Local lymph node assay |

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| | |
|------------------|--|
| LT | Long term |
| mg/kg bw | milligrams per kilogram of body weight |
| mg/kg dwt | milligrams per kilogram dry weight |
| NOAEL | No observed adverse effect level |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| RID | European Agreements Concerning the International Carriage of Dangerous Goods by Rail |
| SCBA | Self contained breathing apparatus |
| SCL | Specific Concentration Limit |
| ST | Short term |
| STOT-SE | Specific target Organ Toxicity - Single Exposure |
| UN | United Nations |
| vPvB | very Persistent and very Bioaccumulative |