

1. IDENTIFICATION

Product Name Butyl Acetate Other Names n-Butyl acetate

Uses Solvent; dehydrating agent; for extraction; perfume ingredient; synthetic flavouring ingredient; preservation of foodstuffs;

laboratory reagent.

Chemical Family No Data Available

C6H12O2 **Chemical Formula**

Chemical Name Acetic acid, butyl ester **Product Description** No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation Location Telephone Redox Ltd 2 Swettenham Road +61-2-97333000

> Minto NSW 2566 Australia

Redox Ltd 11 Mayo Road +64-9-2506222

> Wiri Auckland 2104 New 7ealand

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40400 Shah Alam Sengalor, Malaysia

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation Location Telephone Poisons Information Centre Westmead NSW 1800-251525 131126 Chemcall Australia 1800-127406 +64-4-9179888 Chemcall Malaysia +64-4-9179888 Chemcall New Zealand 0800-243622 +64-4-9179888 **National Poisons Centre** New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420

+1-703-527-3887

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled



Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Hazard Categories Flammable Liquids - Category 3

Specific Target Organ Toxicity (Single Exposure) - Category 3

Pictograms





Signal Word Warning

Hazard Statements H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

AUH066 Repeated exposure may cause skin dryness or cracking

Precautionary Statements Prevention P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.
P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P233 Keep container tightly closed.

Response P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

P370 + P378 In case of fire: Use carbon dioxide (CO2), dry chemical, regular foam extinguishing

agent or water spray for extinction.

P312 Call a POISON CENTER or doctor if you feel unwell.

P304 + P340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

Storage **P405** Store locked up.

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationDangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by

Road & Rail (ADG Code)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Butyl acetate	C6H12O2	123-86-4	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then give two glasses of water. Do NOT induce vomiting. Call a Poison Centre or

doctor/physician for advice. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible)

to maintain an open airway and prevent aspiration. Never give anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting Eye

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN (or hair): Remove and isolate contaminated clothing and shoes. Immediately flush skin and hair with running

water for at least 15 minutes; Wash skin with soap and water. If skin irritation occurs, get medical advice/attention. Wash

contaminated clothing and shoes before reuse.

*In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if

adhering to skin.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or

doctor/physician for advice. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

Advice to Doctor Treat symptomatically. Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to

substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet (SDS) to the doctor in attendance. Do not leave the victim unattended. *Individuals experiencing breathing difficulties after exposure to vapour generated in aerosol application should be

observed for at least 48 hours in case delayed respiratory complications develop.

Exposure

Medical Conditions Aggravated by Repeated exposure may cause skin dryness or cracking.

5. FIRE FIGHTING MEASURES

General Measures Move containers from fire area if you can do it without risk. Cool containers with water spray until well after fire is out.

Flammability Conditions FLAMMABLE LIQUID & VAPOUR: Will be easily ignited by heat, sparks or flame.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), normal foam or water spray for extinction - Do not use straight streams.

*CAUTION: This product has a very low flash point: Use of water spray when fighting fire may be inefficient.

Fire and Explosion Hazard Risk of violent reaction or explosion! Vapours may form explosive mixtures with air. Vapours may travel to source of

ignition and flash back. Most vapours are heavier than air. They will spread along ground and collect in low or confined areas. Vapour explosion hazard indoors, outdoors or in sewers! Containers may explode when heated. Many liquids are

lighter than water.

Hazardous Products of

Combustion

Fire will produce irritating, corrosive and/or toxic gases, including Carbon oxides.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution. Runoff to sewer may create fire or

explosion hazard!

*Fire residues and contaminated fire extinguishing water must be disposed off in accordance with local regulations.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point 22 - 27 °C

Lower Explosion Limit 1.2 %

Upper Explosion Limit 7.6 %

Auto Ignition Temperature 415 - 420 °C

Hazchem Code 3Y

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking,

flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not

touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.

Clean Up Procedures Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for later disposal (see

SECTION 13).

*Use clean, non-sparking tools to collect absorbed material.

Containment Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike far

ahead of large spill for later disposal.

*Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. A vapoursuppressing foam may be used to reduce vapours. Water spray may reduce vapour, but may not prevent ignition in

closed spaces.

Decontamination Ventilate the area.

Environmental Precautionary

Measures

Spillages and decontamination runoff should be prevented from entering drains and watercourses. If the product

contaminates rivers and lakes or drains inform respective authorities.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Evacuate personnel to safe areas.

Keep upwind and to higher ground.

*Large spill: Consider initial downwind evacuation for at least 300 meters.

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Use

adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. Handle in accordance with good industrial hygiene and safety practice. Avoid formation of aerosol. Avoid breathing mist/vapours and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). FLAMMABLE LIQUID & VAPOUR: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not spray on a naked flame or any incandescent material. Open container slowly and cautiously to control

possible pressure release.

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage. Protect against physical damage. Protect from moisture/water. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Have appropriate fire extinguishers available in and near the storage area. Keep away from foodstuffs and incompatible

materials (see SECTION 10). Store locked up.

Container Keep in the original container or in containers made of the same material as the supply container.

*Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or

death.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General n-Butyl acetate (CAS No. 123-86-4):

- Safe Work Australia Exposure Standard: TWA = 150 ppm (713 mg/m3); STEL = 200 ppm (950 mg/m3).

- New Zealand Workplace Exposure Standard [Next review 2023]: TWA = 150 ppm (713 mg/m3); STEL = 200 ppm (950

mg/m3).

- NIOSH REL: TWA = 150 ppm (710 mg/m3); STEL = 200 ppm (950 mg/m3).

- OSHA PEL: TWA = 150 ppm (710 mg/m3).

- Immediately dangerous to life or health (IDLH) concentration: 1,700 ppm.

Exposure Limits No Data Available

Biological Limits No information available.

Engineering Measures A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area. Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protection Equipment - Respiratory protection: Wear respiratory protection in case of inadequate ventilation or to avoid breathing vapours or

mists. Recommended: Organic vapour respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-

shield protection, chemical goggles and/or face-shield as appropriate.

- Hand protection: Wear protective gloves. Recommended: Impervious gloves, e.g. Butyl rubber gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Flame retardant antistatic protective clothing; Clean clothing/protective clothing should be worn, preferably with an apron.

Safety boots in industrial situations is advisory.

Special Hazards Precaustions Do NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere

has been checked.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Employees should wash promptly when skin is wet or contaminated.

Remove clothing immediately if wet or contaminated to avoid flammability hazard. Clothing wet with liquid butyl acetate should be placed in closed containers for storage until it can be discarded or until provision is made for decontamination. If the clothing is to be laundered or otherwise cleaned to remove the butyl acetate, the person performing the operation should be informed of it's hazardous properties. It is essential that all who come into contact with this material maintain high standards of personal hygiene, i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceClear liquidOdourEster-likeColourColourless

pH No Data Available
Vapour Pressure 1.2 kPa (@ 20 °C)

Relative Vapour Density4.0 Air = 1Boiling Point120 - 126 °CMelting Point-78 - -76 °CFreezing PointNo Data Available

Solubility Slightly soluble in water (0.7 g/100 mL) 20°C

 Specific Gravity
 0.88 (Water = 1)

 Flash Point
 22 - 27 °C

 Auto Ignition Temp
 415 - 420 °C

 Evaporation Rate
 1 (n-Butyl acetate = 1)

 Bulk Density
 No Data Available

 Corrosion Rate
 No Data Available

 Decomposition Temperature
 No Data Available

Density
No Data Available
Specific Heat
No Data Available
Molecular Weight
116.2 g/mol
Net Propellant Weight
No Data Available
Octanol Water Coefficient
Log Pow: 1.82
Particle Size
No Data Available
Partition Coefficient
No Data Available

Viscosity 0.732 mPa.s (20 °C) - 0.563 mPa.s (40 °C) (@ No Data Available)

No Data Available

No Data Available

Volatile Percent 100 %

Saturated Vapour Concentration

Vapour Temperature

VOC Volume No Data Available

Additional Characteristics Vapour forms from this product and may travel or be moved by air currents and ignited by pilot lights, other flames,

smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from

product handling point and may flashback explosively.

Potential for Dust Explosion

Fast or Intensely Burning

Characteristics

Not applicable.

Risk of violent reaction or explosion!

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a

Fire

No information available.

Properties That May Initiate or

Contribute to Fire Intensity

FLAMMABLE LIQUID & VAPOUR: Will be easily ignited by heat, sparks or flame.

*Sudden release of hot organic chemical vapours or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of

obvious ignition sources.

Reactions That Release Gases or

Vapours

Fire/decomposition will produce irritating, corrosive and/or toxic gases, including Carbon oxides.

Release of Invisible Flammable

Vapours and Gases

Vapours may form explosive mixtures with air. Vapour explosion hazard indoors, outdoors or in sewers!

10. STABILITY AND REACTIVITY

General Information Reacts with strong oxidants, strong acids and strong bases; This generates fire and explosion hazard. Attacks many

plastics and rubber.

Chemical Stability Stable under normal conditions.

Conditions to Avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take measures to prevent the build

up of electrostatic charge.

Materials to Avoid Incompatible/reactive with strong oxidising agents, Nitric acid, Sodium hydroxide, Alkali metal hydroxides.

Hazardous Decomposition

Products

Fire/decomposition will produce irritating, corrosive and/or toxic gases, including Carbon oxides.

rife/decomposition will produce irritating, corrosive and/or toxic gases, including Carbon oxides

Hazardous Polymerisation Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: Low acute toxicity. Ingestion may irritate the gastric tract, causing sore throat, abdominal pain, nausea,

vomiting, diarrhoea. May be harmful if swallowed in a large quantity.

- Skin corrosion/irritation: May cause irritation. Repeated exposure may cause skin dryness or cracking.
- Eye damage/irritation: May cause eye irritation, redness.
- Respiratory/skin sensitisation: Not classified based on available data.
- Germ cell mutagenicity: Not classified based on available data.
- Carcinogenicity: Not classified based on available data.
- Reproductive toxicity: Not classified based on available data.
- STOT (single exposure): May cause drowsiness or dizziness. Inhalation of high concentrations of vapours or aerosols of these chemicals may cause respiratory irritation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.
- STOT (repeated exposure): Not considered to cause serious damage to health from repeated exposure. The substance defats the skin, which may cause dryness or cracking.
- Aspiration toxicity: Risk of aspiration of the product to the lungs, potentially resulting in chemical pneumonitis.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rats: 10,736 mg/kg [NICNAS].

Other Acute toxicity (Dermal):

- LD50, Rabbits: >14,080 mg/kg [NICNAS].

Inhalation Acute toxicity (Inhalation):

- LC50, Rats: >8,000 ppm (38,320 mg/m3) (4 h) [NICNAS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- LC50, Fish (Fathead minnow): 18 mg/L (96 h). - EC50, Crustacea (Daphnia magna): 44 mg/L (48 h).

- ErC50, Algae/aquatic plants (Desmodesmus subspicatus): 648 mg/l (72 h).

Persistence/Degradability Readily biodegradable.

Mobility This product is highly volatile and will rapidly evaporate to the air if released into the water.

Environmental Fate Avoid release to the environment.

Bioaccumulation Potential No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all

warnings and precautions listed for the product. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or

death.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name BUTYL ACETATES

Class 3 Flammable Liquids
Subsidiary Risk(s) No Data Available

EPG 18 Liquids - Highly Flammable, Toxic And/Or Corrosive

UN Number 1123
Hazchem 3Y
Pack Group III

Special Provision No Data Available

Land Transport (Malaysia)

ADR Code

Proper Shipping Name BUTYL ACETATES

Class 3 Flammable Liquids

Subsidiary Risk(s) No Data Available

EPG 18 Liquids - Highly Flammable, Toxic And/Or Corrosive

UN Number 1123 Hazchem 3Y Pack Group III

Special Provision No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping NameBUTYL ACETATESClass3 Flammable LiquidsSubsidiary Risk(s)No Data Available

EPG 18 Liquids - Highly Flammable, Toxic And/Or Corrosive

UN Number 1123
Hazchem 3Y
Pack Group III

Special Provision No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping NameBUTYL ACETATESClass3 Flammable LiquidsSubsidiary Risk(s)No Data Available

ERG 129 Flammable Liquids (Polar / Water-Miscible / Noxious)

UN Number 1123
Hazchem 3Y
Pack Group III

Special Provision No Data Available

Sea Transport

IMDG Code

Proper Shipping NameBUTYL ACETATESClass3 Flammable LiquidsSubsidiary Risk(s)No Data Available

UN Number 1123 Hazchem 3Y

Pack Group III

Special Provision No Data Available

EMS F-E, S-D Marine Pollutant No

Air Transport

IATA DGR

Proper Shipping NameBUTYL ACETATESClass3 Flammable LiquidsSubsidiary Risk(s)No Data Available

UN Number 1123
Hazchem 3Y
Pack Group III

Special Provision No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods ClassificationDangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by

Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information No Data Available
Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR001091

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Determined

China (IECSC) Listed

Europe (EINECS) 204-658-1

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Listed

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Listed

USA (TSCA) Listed

16. OTHER INFORMATION

Related Product Codes

BUACE11000, BUACE11001, BUACET1000, BUACET1001, BUACET1002, BUACET1003, BUACET1004, BUACET1005, BUACET1006, BUACET1007, BUACET1008, BUACET1009, BUACET1010, BUACET1011, BUACET1012, BUACET1013, BUACET1014, BUACET1015, BUACET1016, BUACET1017, BUACET1018, BUACET1019, BUACET1020, BUACET1021, BUACET1022, BUACET1023, BUACET1024, BUACET1025, BUACET1026, BUACET1027, BUACET1020, BUACET1300, BUACET1500, BUACET1501, BUACET1800, BUACET1801, BUACET1802, BUACET1803, BUACET1803, BUACET1804, BUACET2000, BUACET2100, BUACET2105, BUACET2500, BUACET3000, BUACET3001, BUACET3002, BUACET3003, BUACET3010, BUACET3011, BUACET3012, BUACET3013, BUACET3020, BUACET3030, BUACET3040, BUACET3041, BUACET3050, BUACET3060, BUACET3070, BUACET3080, BUACET3090, BUACET3091, BUACET3401, BUACET3405, BUACET3500, BUACET3501, BUACET3505, BUACET3508, BUACET3510, BUACET3553, BUACET3554, BUACET3555, BUACET3556, BUACET3557, BUACET4000, BUACET4100, BUACET4500, BUACET4501, BUACET4505, BUACET4508, BUACET4550, BUACET5000, BUACET5001, BUACET5001, BUACET6001, BUACET6002, BUACET6003, BUACET6100, BUACET6101, BUACET6102, BUACET6200, BUACET6201, BUACET6300, BUACET6400, BUACET9900, BUACET7702, BUACET8000, BUACET8850, BUACET8888, BUACET9000, BUACET9500, BUACET9900, BUACET9900, BUACET9905, BUACET9906

Revision 5

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

COD Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury
inH2O Inch of Water

K Kelvin **kg** Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight