



SAFETY DATA SHEET POLYPROPYLENE CASTING FILM REVISION 4, DATE 13 JAN 22

1. IDENTIFICATION

Product Name	Polypropylene Casting Film
Other Names	Cast Polypropylene Film; CPP Film; Metallized Cast Polypropylene Film (MCP)
Uses	Printing, Packaging (food & non-food), Lamination. *Do not use in medical applications involving permanent implementations in human body.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Polypropylene and copolymers
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

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

Redox Ltd
Corporate Office Sydney
Locked Bag 15 Minto NSW 2566 Australia
2 Swettenham Road Minto NSW 2566 Australia
All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

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E-mail sydney@redox.com
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ABN 92 000 762 345

Australia
Adelaide
Brisbane
Melbourne
Perth
Sydney

New Zealand
Auckland
Christchurch
Hawke's Bay
UK
London

Malaysia
Kuala Lumpur
USA
Los Angeles
Oakland
Mexico
Saltillo



Globally Harmonised System

Hazard Classification	NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Signal Word	None

National Transport Commission (Australia)

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

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
1-Propene, homopolymer	(C ₃ H ₆) _x	9003-07-0	>80 %
Additives	Unspecified	Trade Secret	<20 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Choking hazard! If swallowed, get immediate medical advice/attention.
Eye	IF IN EYES (In case of contact with hot/molten material or exposure to fumes/vapours of heated/burnt material): Immediately flush eyes with cold running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Get immediate medical advice/attention.
Skin	IF ON SKIN (In case of contact with hot/molten material): Immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance. In case of burns, get immediate medical advice/attention.
Inhaled	IF INHALED (In case of exposure to fumes/vapours of heated/burnt material): Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	Keep personnel removed and upwind of fire. Move containers from fire area if you can do it without risk. Cool material with water spray until well after fire is out.
Flammability Conditions	The material is combustible if exposed to flames.
Extinguishing Media	Use dry chemical, Carbon dioxide (CO ₂), foam or water spray for extinction. Do not use water jets.

SAFETY DATA SHEET POLYPROPYLENE CASTING FILM REVISION 4, DATE 13 JAN 22

Fire and Explosion Hazard	Material can accumulate a static electric charge, which may cause an incendiary electrical discharge.
Hazardous Products of Combustion	Fire/thermal decomposition may produce irritating and/or toxic gases, including Carbon dioxide, Carbon monoxide and smoke.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
Flash Point	>=290 °C
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	>=300 °C
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through spilled material - CPP film on the floor can cause slipping! Avoid generating dust. Avoid breathing dust. Avoid skin contact with sharp film edges.
Clean Up Procedures	Collect recoverable material. Scraps should be swept away and disposed of properly (see SECTION 13).
Containment	Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.
Decontamination	No information available.
Environmental Precautionary Measures	Prevent entry into drains and waterways.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Personal Precautionary Measures	Use appropriate personal protective equipment during clean-up (see SECTION 8).

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust/fumes that may be evolved during processing. Avoid skin contact with sharp film edges. Use personal protective equipment as required (see SECTION 8). Keep away from heat and sources of ignition - No smoking. Take precautionary measures against static discharges. Use proper static dissipation techniques (i.e. Grounding).
Storage	Store in a cool, dry and well-ventilated place (ambient temperature and humidity). Protect from direct sunlight/UV radiation. Avoid exposure to water/moisture. Keep away from heat and sources of ignition - No smoking. Take precautionary measures against static discharge. Keep away from incompatible materials (see SECTION 10).
Container	Keep in the original packaging. Keep original wrapping on the film until it is used. Keep packages closed to prevent contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	<p>No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards:</p> <ul style="list-style-type: none">- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m³ (measured as inhalable dust).- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m³ (total); TWA = 3 mg/m³ (respirable). <p>COMPONENT: Silica gel:</p> <ul style="list-style-type: none">- Safe Work Australia Exposure Standard for Silica - Amorphous: TWA = 10 mg/m³ (This value is for inhalable dust containing no asbestos and < 1% crystalline silica).
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SAFETY DATA SHEET POLYPROPYLENE CASTING FILM REVISION 4, DATE 13 JAN 22

COMPONENT (MCPG Grades): Aluminium (CAS No. 7429-90-5):

- Safe Work Australia Exposure Standard (metal dust): TWA = 10 mg/m3.

* Standard usage conditions of material do not generate the formation of dust particles.

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.
Personal Protection Equipment	<ul style="list-style-type: none">- Respiratory protection: In case of exposure to dust or fumes/vapours of heated/burnt material, wear appropriate respiratory protection (refer to AS/NZS 1715 & 1716).- Eye/face protection: Wear appropriate eye protection to avoid eye contact. In case of exposure to dust, wear safety glasses with side shields (or goggles). In case of exposure to hot/molten material and where splashing may occur, wear chemical goggles/face-shield.- Hand protection: Handle with gloves. In case of exposure to hot/molten material, wear heat-insulating and chemical-impervious gloves.- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. In case of exposure to hot/molten material, wear heat-insulating and chemical-impervious clothing.
Special Hazards Precautions	CPP film on the floor can be slippery. Exercise due care in areas when spillage may occur.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Routine housekeeping should be instituted to ensure that dusts/scrap do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Transparent film
Odour	Odourless
Colour	Clear, white, opaque or pearl
pH	No Data Available
Vapour Pressure	0 Pa (@ No Data Available)
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	160 - 165 °C
Freezing Point	No Data Available
Solubility	Insoluble in water
Specific Gravity	0.88 - 0.92
Flash Point	>=290 °C
Auto Ignition Temp	>=300 °C
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	0.88 - 0.92 g/cm3
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available

Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	Non-volatile
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. *Product as shipped is not a combustible dust.
Fast or Intensely Burning Characteristics	No information available.
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	The material is combustible if exposed to flames. Handling of material may create electrical charges and sparks which may be a cause of ignition for other flammable materials.
Reactions That Release Gases or Vapours	Fire/thermal decomposition may produce irritating and/or toxic gases, including Carbon dioxide, Carbon monoxide and smoke.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	No hazardous reactions known under normal atmospheric conditions.
Chemical Stability	The material is stable under normal storage, handling and operating conditions (up to 45 °C).
Conditions to Avoid	Keep away from heat and sources of ignition. To avoid thermal decomposition, do not heat to temperatures exceeding 235 °C.
Materials to Avoid	Incompatible/reactive with strong oxidising agents and fluorine.
Hazardous Decomposition Products	Fire/thermal decomposition may produce irritating and/or toxic gases, including Carbon dioxide, Carbon monoxide and smoke.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	Information on possible routes of exposure: - Ingestion: Not a likely route of exposure. Material is biologically inert and not harmful. Choking hazard! - Eye contact: If heated, the product may form vapours or fumes which may cause irritation to the eyes. - Skin contact: Contact with hot/molten material may cause severe burns. - Inhalation: If heated, the product may form vapours or fumes which may cause irritation to the respiratory tract. Chronic effects: No information available.
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Persistence/Degradability	Non biodegradable, non compostable.

Mobility	In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.
Environmental Fate	Prevent entry into drains and waterways.
Bioaccumulation Potential	There is no bioaccumulation potential. No bio-concentration is expected because of the relatively high molecular weight (MW greater than 1000).
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Recycle/reprocess or dispose of by landfill or incineration/thermal recovery and in accordance with local/regional/national regulations.
Special Precautions for Land Fill	No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	Polypropylene Casting Film
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name	Polypropylene Casting Film
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	Polypropylene Casting Film
Class	No Data Available

SAFETY DATA SHEET POLYPROPYLENE CASTING FILM REVISION 4, DATE 13 JAN 22

Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name	Polypropylene Casting Film
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name	Polypropylene Casting Film
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping Name	Polypropylene Casting Film
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

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

Dangerous Goods Classification

NOT Dangerous 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

Not Hazardous

National/Regional Inventories**Australia (AIC)**

Not Applicable

Canada (DSL)

Not Determined

Canada (NDSL)

Not Determined

China (IECSC)

Not Determined

Europe (EINECS)

Not Determined

Europe (REACH)

Not Determined

Japan (ENCS/METI)

Not Determined

Korea (KECI)

Not Determined

Malaysia (EHS Register)

Not Determined

New Zealand (NZIoC)

Not Determined

Philippines (PICCS)

Not Determined

Switzerland (Giftliste 1)

Not Determined

Switzerland (Inventory of Notified Substances)

Not Determined

Taiwan (NCSR)

Not Determined

USA (TSCA)

Not Determined

16. OTHER INFORMATION**Related Product Codes**

PPCAFI1000, PPCAFI1001, PPCAFI1700, PPCAFI1701, PPCAFI1702, PPCAFI1703, PPCAFI1704, PPCAFI1705, PPCAFI1706, PPCAFI1707, PPCAFI1708, PPCAFI1709, PPCAFI1710, PPCAFI1711, PPCAFI1712, PPCAFI1713, PPCAFI1714, PPCAFI1715, PPCAFI1716, PPCAFI1717, PPCAFI1718, PPCAFI1719, PPCAFI1720, PPCAFI1721, PPCAFI1722, PPCAFI1723, PPCAFI1724, PPCAFI1725, PPCAFI1726, PPCAFI1727, PPCAFI1728, PPCAFI1729, PPCAFI1730, PPCAFI1731, PPCAFI1732, PPCAFI1733, PPCAFI1734, PPCAFI1735, PPCAFI1736, PPCAFI1737, PPCAFI1738, PPCAFI1739, PPCAFI1740, PPCAFI1741, PPCAFI1742,

SAFETY DATA SHEET POLYPROPYLENE CASTING FILM REVISION 4, DATE 13 JAN 22

PPCAFI1743, PPCAFI1744, PPCAFI1745, PPCAFI1746, PPCAFI1747, PPCAFI1748, PPCAFI1749, PPCAFI1750, PPCAFI1751, PPCAFI1752, PPCAFI1753, PPCAFI1754, PPCAFI1755, PPCAFI1756, PPCAFI1757, PPCAFI1758, PPCAFI1759, PPCAFI1760, PPCAFI1761, PPCAFI1762, PPCAFI1763, PPCAFI1764, PPCAFI1765, PPCAFI1766, PPCAFI1767, PPCAFI1768, PPCAFI1769, PPCAFI1770, PPCAFI1771, PPCAFI1772, PPCAFI1773, PPCAFI1774, PPCAFI1775, PPCAFI1776, PPCAFI1777, PPCAFI1778, PPCAFI1779, PPCAFI1780, PPCAFI1781, PPCAFI1782, PPCAFI1783, PPCAFI1784, PPCAFI1785, PPCAFI1786, PPCAFI1787, PPCAFI1788, PPCAFI1789, PPCAFI1790, PPCAFI1791, PPCAFI1792, PPCAFI1793, PPCAFI1794, PPCAFI1795, PPCAFI1796, PPCAFI1797, PPCAFI1798, PPCAFI1799, PPCAFI1800, PPCAFI1801, PPCAFI1802, PPCAFI1803, PPCAFI1804, PPCAFI1805, PPCAFI1806, PPCAFI1807, PPCAFI1808, PPCAFI1809, PPCAFI1810, PPCAFI1811, PPCAFI1812, PPCAFI1813, PPCAFI1814, PPCAFI1815, PPCAFI1816, PPCAFI1817, PPCAFI1818, PPCAFI1819, PPCAFI1820, PPCAFI1821, PPCAFI1822, PPCAFI1823, PPCAFI1824, PPCAFI1825, PPCAFI1826, PPCAFI1827, PPCAFI1828, PPCAFI1829, PPCAFI1830, PPCAFI1831, PPCAFI1832, PPCAFI1833, PPCAFI1834, PPCAFI1835, PPCAFI1836, PPCAFI1837, PPCAFI1838, PPCAFI1839, PPCAFI1840, PPCAFI1841, PPCAFI1842, PPCAFI1843, PPCAFI1844, PPCAFI1845, PPCAFI1846, PPCAFI1847, PPCAFI1848, PPCAFI1849, PPCAFI1850, PPCAFI1851, PPCAFI1852, PPCAFI1853, PPCAFI1854, PPCAFI1855, PPCAFI1856, PPCAFI1857, PPCAFI1858, PPCAFI1859, PPCAFI1860, PPCAFI1861, PPCAFI1862, PPCAFI1863, PPCAFI1864, PPCAFI1865, PPCAFI1866, PPCAFI1867, PPCAFI1868, PPCAFI1869, PPCAFI1870, PPCAFI1871, PPCAFI1872, PPCAFI1873, PPCAFI1874, PPCAFI1875, PPCAFI1876, PPCAFI1877, PPCAFI1878, PPCAFI1879, PPCAFI1880, PPCAFI1881, PPCAFI1882, PPCAFI1883, PPCAFI1884, PPCAFI1885, PPCAFI1886, PPCAFI1887, PPCAFI1888, PPCAFI1889, PPCAFI1890, PPCAFI1891, PPCAFI1892, PPCAFI1893, PPCAFI1894, PPCAFI1895, PPCAFI1896, PPCAFI1897, PPCAFI1898, PPCAFI1899, PPCAFI1900, PPCAFI1901, PPCAFI1902, PPCAFI1903, PPCAFI1904, PPCAFI1905, PPCAFI1906, PPCAFI1907, PPCAFI1908, PPCAFI1909, PPCAFI1910, PPCAFI1911, PPCAFI1912, PPCAFI1913, PPCAFI1914, PPCAFI1915, PPCAFI1916, PPCAFI1917, PPCAFI1918, PPCAFI1919, PPCAFI1920, PPCAFI1921, PPCAFI1922, PPCAFI1923, PPCAFI1924, PPCAFI1925, PPCAFI1926, PPCAFI2000, PPCAFI2001, PPCAFI2002, PPCAFI2003, PPCAFI2004, PPCAFI2005, PPCAFI2006, PPCAFI2007, PPCAFI2008, PPCAFI2009, PPCAFI2010, PPCAFI2011, PPCAFI2012, PPCAFI2013, PPCAFI2014, PPCAFI2015, PPCAFI2016, PPCAFI2017, PPCAFI2018, PPCAFI2019, PPCAFI2020, PPCAFI2021, PPCAFI2022, PPCAFI2023, PPCAFI2024, PPCAFI2025, PPCAFI2026, PPCAFI2027, PPCAFI2300, PPCAFI2301, PPCAFI2302, PPCAFI2303, PPCAFI2304, PPCAFI2305, PPCAFI2306, PPCAFI2307

Revision

4

Revision Date

13 Jan 2022

Reason for Issue

Update SDS

Key/Legend

< Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO₂ Carbon Dioxide

COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Fahrenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/l Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluble in each other.

inHg Inch of Mercury

inH₂O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

lb 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.

ltr 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

mmH₂O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Health 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