

1. IDENTIFICATION

Product Name Zinc Oxide

Other Names C.I. 77947; C.I. Pigment White 4; Chinese white; Zinc monoxide; Zinc Oxide AKTIV; Zinc white

Uses Additive.

Chemical Family No Data Available

Chemical FormulaZnOChemical NameZinc oxide

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

 Organisation
 Location
 Telephone

 Redox Ltd
 2 Swettenham Road
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Minto NSW 2566 Australia

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Wiri Auckland 2104 New Zealand

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Redox Chemicals Sdn Bhd Suite 13A.03, Menara Summit +60-3-5614-2111

Persiaran Kewajipan USJ1 47600 UEP Subang Jaya Selangor, Malaysia

Emergency Contact Details

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

Organisation Location Telephone Poisons Information Centre Australia - Westmead NSW 1800-251525 131126 Chemcall Australia 1800-127406 +64-4-9179888 +64-4-9179888 Chemcall Malaysia **National Poison Centre** Malaysia +60-4-6536-999

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 Acute Hazard To The Aquatic Environment - Category 1

Long-term Hazard To The Aquatic Environment - Category 1

Pictograms

Signal Word Warning

Hazard Statements H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention P273 Avoid release to the environment.

Response **P391** Collect spillage.

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 Classification NOT Dangerous 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 NOT 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
Zinc oxide	ZnO	1314-13-2	<=100 %
May contain: Magnesium oxide	MgO	1309-48-4	0 - 4 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth then drink plenty of water. Do not induce vomiting unless directed to do so by medical

personnel. Get medical advice/attention if you feel unwell. If vomiting occurs, lean patient forward or place on left side (head-down position if possible) to maintain open airway and prevent aspiration. Never give anything by mouth to an

unconscious person.

Eye IF IN EYES: Immediately flush eyes with 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. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. Remove

contaminated clothing and loosen remaining clothing. If respiratory symptoms persist, get medical advice/attention.

Advice to Doctor Treat symptomatically. No action shall be taken involving any personal risk or without suitable training. Ensure that

attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to

protect themselves.

*Most important symptoms and effects, both acute and delayed: Chronic exposure to zinc oxide may cause respiratory

tract irritation with nasopharyngitis and laryngitis.

Medical Conditions Aggravated by No information available.

Exposure

5. FIRE FIGHTING MEASURES

General Measures 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. If safe to do so, move undamaged containers from fire area.

Cool containers with water spray until well after fire is out. Dike fire-control water for later disposal.

Flammability Conditions Non-combustible; Material does not burn.

Extinguishing Media If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

*Use extinguishing agent suitable for type of surrounding fire.

Fire and Explosion Hazard No information available.

Hazardous Products of

Combustion

Fire or heat may produce irritating and/or toxic gases, including Carbon dioxide, Carbon monoxide, metal oxides.

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
No Data Available
Lower Explosion Limit
No Data Available
Upper Explosion Limit
No Data Available
Auto Ignition Temperature
No Data Available
Hazchem Code
No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure No action shall be taken involving any personal risk or without suitable training. Ensure adequate ventilation. Do not

touch or walk through spilled material. Avoid creating dusty conditions and prevent wind dispersal. Avoid breathing dust

and contact with eyes, skin and clothing.

Clean Up Procedures Carefully shovel or sweep up spilled material and place in suitable container.

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Avoid dispersal of spilt material and

runoff and contact with soil, waterways, drains and sewers.

Decontamination No information available.

Environmental Precautionary

Measures

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

contamination has occurred, advise local emergency services.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher

ground.

Personal Precautionary Measures Use personal protective equipment as required (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. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required

(see SECTION 8). Avoid release to the environment - Collect spillage (see SECTION 6).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers closed when not in use - check

regularly for spills. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep away from foodstuffs and incompatible materials (see SECTION 10). Use appropriate containment to avoid

environmental contamination.

Container Keep in the original container or an approved alternative made from a compatible material. Do not store in unlabelled

containers. Empty containers retain product residue and can be hazardous.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General COMPONENT: Zinc oxide (CAS No. 1314-13-2):

- Safe Work Australia Exposure Standard for Zinc oxide (dust): TWA = 10 mg/m3; This value is for inhalable dust containing

no asbestos and <1% crystalline silica (a).

- Safe Work Australia Exposure Standard for Zinc oxide (fume): TWA = 5 mg/m3; STEL = 10 mg/m3. - New Zealand Workplace Exposure Standard for Zinc oxide [Adopted 2020]: TWA = 2 mg/m3 (0.1 mg/m3 respirable); STEL

= 5 mg/m3 (0.5 mg/m3 respirable).

COMPONENT: Magnesium oxide (CAS No. 1309-48-4):

- Safe Work Australia Exposure Standard for Magnesium oxide (fume): TWA = 10 mg/m3.

- New Zealand Workplace Exposure Standard for Magnesium oxide, fume [Next review 2023]: TWA = 10 mg/m3.

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 - Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists.

Recommended: Dust mask/respirator complying with an approved standard (refer to AS/NZS 1715 & 1716).

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

shields; If operating conditions cause high dust concentrations to be produced, use dust goggles.

- Hand protection: Handle with gloves. Recommended (<1 hr): Chemical-resistant, impervious gloves, e.g. Polyvinyl

chloride (PVC), Nitrile rubber (NBR), Polychloroprene (CR). - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Wear

protective clothing, e.g. Overalls, safety shoes.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Solid **Physical State Appearance** Powder Odour Odourless

Colour White to yellowish No Data Available pН

Vapour PressureNo Data AvailableRelative Vapour DensityNo Data AvailableBoiling PointNo Data AvailableMelting Point>800 - 1975 °CFreezing PointNo Data AvailableSolubilityInsoluble in cold water

Specific Gravity 5.61

Flash Point

Auto Ignition Temp

No Data Available

Evaporation Rate

Bulk Density

Corrosion Rate

Decomposition Temperature

No Data Available

Specific Heat No Data Available

Molecular Weight 81.4 g/mol

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** No Data Available **VOC Volume** No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion No information available.

Fast or Intensely Burning No information available.

Characteristics

Flame Propagation or Burning No information available.

Rate of Solid Materials

olid Materials

Non-Flammables That Could Contribute Unusual Hazards to a

ire

No information available.

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible; Material does not burn.

Reactions That Release Gases or

Vapours

Fire or heat may produce irritating and/or toxic gases, including Carbon dioxide, Carbon monoxide, metal oxides.

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information Reacts violently with aluminium powder, magnesium powder and chlorinated rubber (on heating); This generates fire and

explosion hazard.

Chemical StabilityStable under normal storage and handling conditions.Conditions to AvoidAvoid dust formation. Avoid exposure to air/moisture.

Materials to Avoid Incompatible/reactive with acids, alkalis, magnesium, aluminium, chlorinated rubber (on heating).

Hazardous Decomposition

Products

Fire or heat may produce irritating and/or toxic gases, including Carbon dioxide, Carbon monoxide, metal oxides.

Hazardous Polymerisation

Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information Information on toxicological effects:

- Acute toxicity: Not classified.
- Skin corrosion/irritation: Not classified.
- Serious eye damage/irritation: Not classified.
- Respiratory/skin sensitisation: Not a skin sensitizer.
- Germ cell mutagenicity: No information available.
- Carcinogenicity: Not listed as carcinogenic according to IARC.
- Reproductive toxicity: No information available.
- STOT (single exposure): No information available.
- STOT (repeated exposure): No information available.
- Aspiration toxicity: Not classified.

Information on possible routes of exposure:

- Ingestion: No adverse effects expected; Large amounts may cause abdominal pain, diarrhoea, nausea, vomiting.
- Eye contact: Non-irritating; May cause (mechanical) eye irritation, redness.
- Skin contact: Non-irritating; No adverse effects expected.
- Inhalation: Dust may cause respiratory irritation, coughing, sore throat. Fumes may cause metallic taste, headache,

fever, chest tightness, shortness of breath, weakness, muscle pain.

Chronic effects: Repeated or prolonged inhalation of (Zinc oxide) dust may lead to chronic respiratory irritation.

Acute

Ingestion Acute toxicity (Oral):

COMPONENT: Zinc oxide (CAS No. 1314-13-2):

- LD50, Rat: >5,000 mg/kg

COMPONENT: Magnesium oxide (CAS No. 1309-48-4):

- LD50, Rat: >5,000 mg/kg

Inhalation Acute toxicity (Inhalation - Dust/mist):

COMPONENT: Zinc oxide (CAS No. 1314-13-2):

- LC50, Rat: >5,700 mg/m3 (4 h).

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

COMPONENT: Zinc oxide (CAS No. 1314-13-2):

- EC50, Daphnia (Ceriodaphnia dubia): 0.413 mg Zn/L (48 h) [US EPA 821-R-02-012; pH: <7].

- IC50, Algae (Pseudokirchneriella subcapitata): 0.136 mg Zn/L (72 h) [OECD 201, Growth Inhibition Test; pH: >7 - 8.5].

Persistence/Degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Mobility
Environmental Fate

No information available.

Very toxic to aquatic life with long lasting effects - Avoid release to the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information The generation of waste should be avoided or minimised wherever possible. Dispose of surplus and non-recyclable

product via a licensed waste disposal contractor and in accordance with local/regional/national regulations. This material and its container must be disposed of in a safe way. Waste should not be disposed of untreated to the sewer unless fully

compliant with the requirements of all authorities with jurisdiction.

Special Precautions for Land Fill Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or

liners may retain some product residues.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Zinc oxide

Class No Data Available
Subsidiary Risk(s) No Data Available

EPG 171 Substances (Low to Moderate Hazard)

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available

Special Provision AU01

Comments Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle

exceeding 500 kg(L) or IBCs.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

EPG 171 Substances (Low to Moderate Hazard)

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

EPG 171 Substances (Low to Moderate Hazard)

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

ERG 171 Substances (Low to Moderate Hazard)

 UN Number
 3077

 Hazchem
 2Z

 Pack Group
 III

Special Provision No Data Available

Sea Transport

IMDG Code

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

 UN Number
 3077

 Hazchem
 27

 Pack Group
 III

Special Provision No Data Available

EMS F-A, S-F
Marine Pollutant Yes

Air Transport

IATA DGR

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

Class 9 Miscellaneous Dangerous Goods and Articles

Subsidiary Risk(s) No Data Available

 UN Number
 3077

 Hazchem
 2Z

 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 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 HSR002503 - Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Determined

China (IECSC) Listed

Europe (EINECS) 215-222-5

Europe (REACh) Not Determined

Japan (ENCS/METI) Listed

Korea (KECI) Listed

Malaysia (List of Classified Substances) Listed

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Taiwan (TCSI) Listed

USA (TSCA) Listed

Mexico (INSQ) Listed

16. OTHER INFORMATION

Related Product Codes

ZIOXID0001, ZIOXID0002, ZIOXID0500, ZIOXID0700, ZIOXID1000, ZIOXID1001, ZIOXID1002, ZIOXID1003, ZIOXID1004, ZIOXID1005, ZIOXID1006, ZIOXID1007, ZIOXID1008, ZIOXID1009, ZIOXID1010, ZIOXID1011, ZIOXID1012, ZIOXID1013, ZIOXID1014, ZIOXID1015, ZIOXID1016, ZIOXID1017, ZIOXID1018, ZIOXID1019, ZIOXID1020, ZIOXID1021, ZIOXID1022, ZIOXID1023, ZIOXID1024, ZIOXID1025, ZIOXID1026, ZIOXID1027, ZIOXID1028, ZIOXID1029, ZIOXID1030, ZIOXID1031, ZIOXID1032, ZIOXID1033, ZIOXID1034, ZIOXID1035, ZIOXID1036, ZIOXID1037, ZIOXID1038, ZIOXID1039, ZIOXID1040, ZIOXID1041, ZIOXID1042, ZIOXID1043, ZIOXID1044, ZIOXID1045, ZIOXID1046, ZIOXID1047, ZIOXID1048, ZIOXID1049, ZIOXID1050, ZIOXID1051, ZIOXID1052, ZIOXID1053, ZIOXID1054, ZIOXID1055, ZIOXID1056, ZIOXID1057, ZIOXID1058, ZIOXID1059, ZIOXID1060, ZIOXID1061, ZIOXID1062, ZIOXID1063, ZIOXID1064, ZIOXID1065, ZIOXID1066, ZIOXID1067, ZIOXID1068, ZIOXID1069, ZIOXID1070, ZIOXID1071, ZIOXID1072, ZIOXID1073, ZIOXID1074, ZIOXID1075, ZIOXID1076, ZIOXID1077, ZIOXID1078, ZIOXID1079, ZIOXID1080, ZIOXID1081, ZIOXID1082, ZIOXID1083, ZIOXID1084, ZIOXID1086, ZIOXID1088, ZIOXID1089, ZIOXID1091, ZIOXID1092, ZIOXID1095, ZIOXID1099, ZIOXID1100, ZIOXID1101, ZIOXID1400, ZIOXID1500, ZIOXID1501, ZIOXID1502, ZIOXID1503, ZIOXID1600, ZIOXID1700, ZIOXID1701, ZIOXID1702, ZIOXID1703, ZIOXID1800, ZIOXID1801, ZIOXID1802, ZIOXID1803, ZIOXID1804, ZIOXID1805, ZIOXID1806, ZIOXID1900, ZIOXID1901, ZIOXID1902, ZIOXID1903, ZIOXID2000, ZIOXID2001, ZIOXID2002, ZIOXID2003, ZIOXID2100, ZIOXID2101, ZIOXID2200, ZIOXID2201, ZIOXID2202, ZIOXID2256, ZIOXID2300, ZIOXID2400, ZIOXID2401, ZIOXID2500, ZIOXID2501, ZIOXID2502, ZIOXID2600, ZIOXID2601, ZIOXID2700, ZIOXID2701, ZIOXID2800, ZIOXID2900, ZIOXID3000, ZIOXID3100, ZIOXID3101, ZIOXID3200, ZIOXID3201, ZIOXID3300, ZIOXID3400, ZIOXID3500, ZIOXID3501, ZIOXID3502, ZIOXID3503, ZIOXID3505, ZIOXID3510, ZIOXID3515, ZIOXID3520, ZIOXID3550, ZIOXID3600, ZIOXID3601, ZIOXID3605, ZIOXID3610, ZIOXID3900, ZIOXID4000, ZIOXID4001, ZIOXID4002, ZIOXID4100, ZIOXID4200, ZIOXID4300, ZIOXID4400, ZIOXID4500, ZIOXID4600, ZIOXID4700, ZIOXID4800, ZIOXID4900, ZIOXID5000, ZIOXID5001, ZIOXID5002, ZIOXID5100, ZIOXID5200, ZIOXID5201, ZIOXID5300, ZIOXID5400, ZIOXID5500, ZIOXID5501, ZIOXID5502, ZIOXID5600, ZIOXID5700, ZIOXID5800, ZIOXID5900,

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Revision

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