1. IDENTIFICATION

Product Name	**Sodium metabisulphite**
Other Names	Sodium metabisulfite
Uses	For industrial use, food additive, reducing agent, whitening agent, for professional use.
Chemical Family	No Data Available
Chemical Formula	H2O5S2.2Na
Chemical Name	Disulfurous acid, sodium salt
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) Schedule 5

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 Toxicity (Oral) - Category 4	
		Serious Eye Damage/Irritation - Category 1	
Pictograms			
Signal Word		Danger	
Hazard Statements		**H302**	Harmful if swallowed.
		H318	Causes serious eye damage.
		AUH031	Contact with acids liberates toxic gas
Precautionary Statements	Prevention	**P264**	Wash exposed skin thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P280	Wear eye protection/face protection.
	Response	**P301 + P312**	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
		P330	Rinse mouth.
		P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.
	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)	

Environmental Protection Authority (New Zealand)
Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications	Health Hazards	**6.1D**	Substances that are acutely toxic - Harmful
		6.3A	Substances that are irritating to the skin
		6.5A	Substances that are respiratory sensitisers
		6.5B	Substances that are contact sensitisers
		8.3A	Substances that are corrosive to ocular tissue
	Environmental Hazards	**9.1D**	Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
		9.2B	Substances that are ecotoxic in the soil environment
		9.3C	Substances that are harmful to terrestrial vertebrates

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium metabisulphite	Na2S2O5	7681-57-4	>=90 %
Ingredients determined not to be hazardous	Unspecified	Unspecified	Balance %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink a glass of water. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice.

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. Immediately call a Poison Centre or doctor/physician for advice.

Skin IF ON SKIN: Remove contaminated clothing and shoes immediately. Wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.

Advice to Doctor Treat symptomatically. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Medical Conditions Aggravated by Exposure No information available.

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Non-combustible material.

Extinguishing Media If material is involved in a fire, use water spray or Carbon dioxide (CO2) for extinction. In case of fire in the surroundings, use appropriate extinguishing media.

Fire and Explosion Hazard Decomposes on heating; This produces sulfur oxides.

Hazardous Products of Combustion Fire or heat may produce irritating, toxic and/or corrosive fumes. Do not inhale explosion and combustion gases.

Special Fire Fighting Instructions Collect contaminated fire extinguishing water separately - This must not be discharged into drains.

Personal Protective Equipment Wear self contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may 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 Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Collect material (sweep or vacuum up) and seal in properly labelled containers for disposal (see SECTION 13). If appropriate, moisten first to prevent dusting.

Containment Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

Decontamination Wash area with plenty of water. Retain contaminated washing water and dispose appropriately.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of escape/entry into

Environmental Precautionary Measures	waterways, soil or drains, inform the responsible authorities.
Evacuation Criteria	Spill or leak area should be isolated immediately. Remove persons to safety. Keep unauthorised/unprotected personnel away.
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 generating dust. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Before making transfer operations, make sure that there aren't any incompatible material residuals in the containers.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Avoid exposure to air and moisture. Keep away from heat and sources of ignition - No smoking. Keep away from food/feedstuffs and incompatible materials (see SECTION 10).
Container	Keep in the original container. Do not reuse empty containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	For Sodium metabisulphite (CAS No. 7681-57-4): - Safe Work Australia Exposure Standard: TWA = 5 mg/m3 - New Zealand Workplace Exposure Standard: TWA = 5 mg/m3 - NIOSH REL: TWA = 5 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: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particle filter device (refer to AS/NZS 1715 & 1716). - Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Eye glasses with side protection or chemical goggles. - Hand protection: Handle with gloves. Recommended: Impervious gloves. Use protective gloves that provide comprehensive protection. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes. Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Special Hazards Precaustions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse. Contaminated clothing should be changed before entering eating areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystals or powder
Odour	Pungent (sulfur dioxide)
Colour	White
pH	3.5 - 5.0 (5%)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available

Boiling Point	No Data Available
Melting Point	>150 °C
Freezing Point	No Data Available
Solubility	470 g/L in water 20°C
Specific Gravity	1.2 - 1.3
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
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	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	-3.7
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 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	Non-combustible material.
Reactions That Release Gases or Vapours	Decomposes on heating and on contact with acids - This produces sulfur oxides.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	The substance is a strong reducing agent; It reacts violently with oxidants. Slowly oxidised to sulfate on exposure to air and moisture. Contact with acids liberates toxic gas (sulfur oxides).
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid generating dust. Avoid exposure to heat.
Materials to Avoid	Incompatible/reactive with acids and oxidising agents.
Hazardous Decomposition Products	Decomposes on heating and on contact with acids - This produces sulfur oxides.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information

- Acute toxicity: Harmful if swallowed. The substance is severely irritating to the gastrointestinal tract; Symptoms include abdominal pain, diarrhoea, nausea, vomiting.
- Skin corrosion/irritation: Not classified; Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Causes serious eye damage. Symptoms include redness, pain.
- Respiratory/skin sensitisation: Not classified; Based on available data, the classification criteria are not met. Inhalation may cause asthma-like reactions in sensitive individuals.
- Germ cell mutagenicity: Not classified; Based on available data, the classification criteria are not met.
- Carcinogenicity: Not classified; Based on available data, the classification criteria are not met.
- Reproductive toxicity: Not classified; Based on available data, the classification criteria are not met.
- STOT (single exposure): Not classified; Based on available data, the classification criteria are not met. Breathing in dust may be irritating to the respiratory tract.
- STOT (repeated exposure): Not classified; Based on available data, the classification criteria are not met.
- Aspiration hazard: Not classified; Based on available data, the classification criteria are not met.

Acute

Ingestion

Acute toxicity (Oral):
- LD50, Rat: >1,540 mg/kg (Sodium metabisulphite) [Supplier's SDS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic acute toxicity (Sodium metabisulphite):
- LC50, Fish = 150 - 220 mg/l (96 h).
- EC50, Daphnia = 89 mg/l (48 h).
- EC50, Algae = 48 mg/l (72 h).
- EC50, Bacteria = 56 mg/l (17 h).

Persistence/Degradability No information available.

Mobility No information available.

Environmental Fate Not classified for environmental hazards - Based on available data, the classification criteria are not met. Adopt good working practices, so that the product is not released into the environment.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

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

Special Precautions for Land Fill Recover if possible. Send waste to an authorised disposal facility for incineration under controlled conditions.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	Sodium metabisulphite
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	Sodium metabisulphite
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	Sodium metabisulphite
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 (United States of America)
US DOT

Proper Shipping Name	Sodium metabisulphite
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	Sodium metabisulphite
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	Sodium metabisulphite
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)	Schedule 5

Environmental Protection Authority (New Zealand)
Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	HSR001548

National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	231-673-0
Europe (REACh)	01-2119531326-45-
Japan (ENCS/METI)	1-502
Korea (KECI)	KE-12701
Malaysia (EHS Register)	Listed
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

SOMETA0200, SOMETA0300, SOMETA0400, SOMETA0500, SOMETA0600, SOMETA0700, SOMETA0705, SOMETA0707, SOMETA0708, SOMETA0710, SOMETA0715, SOMETA0720, SOMETA0725, SOMETA0800, SOMETA0900, SOMETA0905, SOMETA0910, SOMETA0911, SOMETA1000, SOMETA1001, SOMETA1002, SOMETA1003, SOMETA1004, SOMETA1005, SOMETA1006, SOMETA1007, SOMETA1008, SOMETA1009, SOMETA1010, SOMETA1011, SOMETA1012, SOMETA1013, SOMETA1014, SOMETA1015, SOMETA1016, SOMETA1017, SOMETA1018, SOMETA1019, SOMETA1020, SOMETA1021, SOMETA1022, SOMETA1023, SOMETA1024, SOMETA1025, SOMETA1026, SOMETA1027, SOMETA1035, SOMETA1036, SOMETA1037, SOMETA1039, SOMETA1100, SOMETA1101, SOMETA1102, SOMETA1103, SOMETA1200, SOMETA1205, SOMETA1250, SOMETA1300, SOMETA1301, SOMETA1311, SOMETA1315, SOMETA1316, SOMETA1400, SOMETA1500, SOMETA1600, SOMETA1700, SOMETA1705, SOMETA1706, SOMETA1708, SOMETA1710, SOMETA1711, SOMETA1712, SOMETA1713, SOMETA1800, SOMETA1801, SOMETA1802, SOMETA1803, SOMETA1804, SOMETA1805, SOMETA1806, SOMETA1807, SOMETA1808, SOMETA1809, SOMETA1810, SOMETA1811, SOMETA1812, SOMETA1813, SOMETA1814, SOMETA1815, SOMETA1816, SOMETA1817, SOMETA1818, SOMETA1827, SOMETA1828, SOMETA1829, SOMETA1830, SOMETA1831, SOMETA1832, SOMETA1833, SOMETA1834, SOMETA1835, SOMETA1836, SOMETA1837, SOMETA1900, SOMETA2000, SOMETA2100, SOMETA2150, SOMETA2200, SOMETA2201, SOMETA2300, SOMETA2400, SOMETA2401, SOMETA2402, SOMETA2403, SOMETA2404, SOMETA2405, SOMETA2406, SOMETA2407, SOMETA2408, SOMETA2409, SOMETA2410, SOMETA2411, SOMETA2412, SOMETA2413, SOMETA2414, SOMETA2415, SOMETA2416, SOMETA2417, SOMETA2418, SOMETA2419, SOMETA2420, SOMETA2421, SOMETA2422, SOMETA2423, SOMETA2424, SOMETA2425, SOMETA2426, SOMETA2427, SOMETA2428, SOMETA2500, SOMETA2501, SOMETA2502, SOMETA2503, SOMETA2504, SOMETA2505, SOMETA2506, SOMETA2600, SOMETA2601, SOMETA2700, SOMETA2701, SOMETA2800, SOMETA2900, SOMETA3000, SOMETA3002, SOMETA3100, SOMETA3101, SOMETA3106, SOMETA3200, SOMETA3201, SOMETA3202, SOMETA3300, SOMETA3400, SOMETA3500, SOMETA3501, SOMETA3502, SOMETA3600, SOMETA3700, SOMETA3800, SOMETA3900, SOMETA3901, SOMETA3902, SOMETA3903, SOMETA3904, SOMETA3905, SOMETA3906, SOMETA3909, SOMETA3910, SOMETA3911, SOMETA4000, SOMETA4001, SOMETA4002, SOMETA4003, SOMETA4100, SOMETA4101, SOMETA4102, SOMETA4103, SOMETA4104, SOMETA4105, SOMETA4106, SOMETA4107, SOMETA4108, SOMETA4200, SOMETA4201, SOMETA4202, SOMETA4203, SOMETA4204, SOMETA4205, SOMETA4206, SOMETA4207, SOMETA4208, SOMETA4209, SOMETA4210, SOMETA4211, SOMETA4212, SOMETA4213, SOMETA4214, SOMETA4215, SOMETA4300, SOMETA4301, SOMETA4302, SOMETA4303, SOMETA4304, SOMETA4400, SOMETA4500, SOMETA4501, SOMETA4502, SOMETA4600, SOMETA4700, SOMETA4701, SOMETA4800, SOMETA4900, SOMETA5000, SOMETA5001, SOMETA5002, SOMETA5100, SOMETA5101, SOMETA5102, SOMETA5200, SOMETA5201, SOMETA5202, SOMETA5300, SOMETA5301, SOMETA5400, SOMETA5401, SOMETA5500, SOMETA5501, SOMETA5502, SOMETA5600, SOMETA5601, SOMETA5700, SOMETA5701, SOMETA5800, SOMETA5801, SOMETA5802, SOMETA5900, SOMETA5901, SOMETA6000, SOMETA6001, SOMETA6002, SOMETA6100, SOMETA6200, SOMETA6201, SOMETA6300, SOMETA6400, SOMETA6500, SOMETA6600, SOMETA6700, SOMETA7000, SOMETA7200, SOMETA7400, SOMETA7401, SOMETA7430, SOMETA7432, SOMETA7500, SOMETA7600, SOMETA7700, SOMETA7701, SOMETA7702, SOMETA7710, SOMETA7800, SOMETA7801, SOMETA7820, SOMETA7850, SOMETA7852, SOMETA7860, SOMETA7900, SOMETA7901, SOMETA7905, SOMETA7910, SOMETA7920, SOMETA8000, SOMETA8100, SOMETA8200, SOMETA8210, SOMETA8215, SOMETA8220, SOMETA8500, SOMETA8600, SOMETA8700, SOMETA8800, SOMETA8900, SOMETA9000, SOMETA9100, SOMETA9200, SOMETA9300, SOMETA9500, SOMETA9600, SOMETA9800, SOMETA9810, SOMETA9811, SOMETA9900, SOMETB1000, SOMETB1001, SOMETB2000

Revision

4

Revision Date

04 Dec 2019

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 Farenheit
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 insoluable 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 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