

1. IDENTIFICATION

Product Name	Potassium Sulphite Solution
Other Names	No Data Available
Uses	Industrial use; reducing agent; photochemical product; for professional use.
Chemical Family	No Data Available
Chemical Formula	K ₂ SO ₃
Chemical Name	Potassium Sulphite Solution
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty 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

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)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Water	No Data Available	7732-18-5	54 - 56 %
Potassium Sulphite	No Data Available	10117-38-1	44 - 46 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Rinse mouth. Do NOT induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person.
Eye	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.
Skin	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
Inhaled	Remove casualty to fresh air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

5. FIRE FIGHTING MEASURES

General Measures	Move undamaged containers from immediate hazard area if it can be done safely. Use water spray or fog for cooling exposed containers.
Flammability Conditions	Not flammable.
Extinguishing Media	Use water or Carbon dioxide (CO ₂).
Fire and Explosion Hazard	Product is not explosive.
Hazardous Products of Combustion	Toxic gases. Sulphur oxides. Potassium oxides. 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	Do not enter fire area without proper protective equipment, including suitable breathing apparatus.
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	Ventilate area. Handle in accordance with good industrial hygiene and safety practice. Do NOT breathe vapours. Avoid all contact with skin, eyes, or clothing.
Clean Up Procedures	Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Clean up (large spill) by vacuum. Contact competent authorities after a spill.
Containment	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Decontamination	Wash with plenty of water. Retain contaminated washing water and dispose it.
Environmental Precautionary Measures	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Evacuation Criteria	Evacuate unnecessary personnel.
Personal Precautionary Measures	Use appropriate personal protection equipment (see Section 8).

7. HANDLING AND STORAGE

Handling	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any (incompatible) residues in the containers.
Storage	Keep this product in a dry, well-ventilated place. Keep away from food, drink and feed. Keep away from acids. Keep away from oxidizing agents.
Container	Keep in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No Occupational Exposure Limits have been established for this product. Safe Work Australia Exposure Standard for Sulphur dioxide (CAS No. 7446-09-5): TWA = 2 ppm or 5.2 mg/m ³ STEL = 5 ppm or 13 mg/m ³
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. 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	Hand Protection: Wear chemically resistant protective gloves. Eye Protection: Chemical goggles or safety glasses. Skin & Body Protection: Protective clothing (chemically resistant materials and fabrics). Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapour or mist are expected to exceed exposure limits.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke while working. Contaminated clothing should be changed before entering eating areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear liquid

Odour	None
Colour	Colourless or pale yellow
pH	9.5 - 10.5 100%
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	~105 °C
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Soluble
Specific Gravity	No Data Available
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	~1.45 kg/dm ³
Specific Heat	No Data Available
Molecular Weight	158.27
Net Propellant Weight	No Data Available
Octanol Water Coefficient	-4.0
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	Not applicable.
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	Not flammable.
Reactions That Release Gases or Vapours	Combustion/decomposition: Toxic fumes are released. Sulphur oxides. Potassium oxides.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	Hazardous reactions will not occur under normal conditions.
Chemical Stability	Stable at standard temperature and pressure.
Conditions to Avoid	Direct sunlight. Extremely high or low temperatures. Sources of ignition.
Materials to Avoid	Strong acids. Strong bases. Strong oxidisers. Toxic gases. Sulphur oxides. Potassium oxides.

Hazardous Decomposition Products**Hazardous Polymerisation** Will not occur.**11. TOXICOLOGICAL INFORMATION****General Information**

Not expected to present a significant (health) hazard under anticipated conditions of normal use. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Most important symptoms and effects, both acute and delayed:

Inhalation: Respiratory tract irritation.

Skin Contact: May cause skin irritation. Not classified (pH: 9 - 10).

Eye Contact: May cause eye irritation. Not classified (pH: 9 - 10).

Ingestion: Not likely to be harmful or have adverse effects.

Acute**Ingestion**

Acute Oral Toxicity - Rat LD50: >2,000 mg/kg

Carcinogen Category

None

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No information available.

Persistence/Degradability

No information available.

Mobility

No information available.

Environmental Fate

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 local/regional/national regulations. Recover if possible.

Special Precautions for Land Fill

No information available.

14. TRANSPORT INFORMATION**Land Transport (Australia)**

ADG Code

Proper Shipping Name

POTASSIUM SULPHITE SOLUTION

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

Land Transport (Malaysia)

ADR

Proper Shipping Name	POTASSIUM SULPHITE SOLUTION
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

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	POTASSIUM SULPHITE SOLUTION
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

Land Transport (United States of America)

US DOT

Proper Shipping Name	POTASSIUM SULPHITE SOLUTION
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

Sea Transport

IMDG Code

Proper Shipping Name	POTASSIUM SULPHITE SOLUTION
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

Air Transport

IATA DGR

Proper Shipping Name	POTASSIUM SULPHITE SOLUTION
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

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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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
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National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	233-321-1
Europe (REACH)	01-2119537319-34-
Japan (ENCS/METI)	1-453
Korea (KECI)	KE-29203
Malaysia (EHS Register)	Not 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	POTSUL1000, POTSUL1001, POTSUL1050, POTSUL1100, POTSUL1200, POTSUL2000
Revision	2
Revision Date	30 Jan 2017
Key/Legend	<p>< 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 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</p>