



1. IDENTIFICATION

Product Name Potassium sulphate

Other Names Dipotassium sulfate; Dipotassium sulphate; Potassium sulfate; SOP

Uses Fertilisers.

Chemical Family No Data Available

Chemical Formula K2SO4

Chemical Name Sulfuric acid, dipotassium salt

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



ABN

Phone +61 2 9733 3000 +61 2 9733 3111 E-mail sydney@redox.com www.redox.com 92 000 762 345

Adelaide Auckland Brisbane Christchurch Melbourne Hawke's Bay Perth

Kuala Lumpur USA

Los Angeles



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
Potassium sulphate	K2SO4	7778-80-5	<=100 %

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. Get medical advice/attention if

you feel unwell. 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 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. If respiratory

symptoms persist, get medical advice/attention.

Advice to Doctor Treat symptomatically. **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

Flammability Conditions Non-combustible; Material does not burn.

Extinguishing Media If material is involved in a fire, use extinguishing media appropriate to surrounding fire conditions.

Fire and Explosion Hazard Decomposes on heating, emitting toxic fumes.

Hazardous Products of Combustion

Fire or heat may produce irritating, toxic and/or corrosive fumes, including oxides of Sulfur, oxides of Potassium.

Special Fire Fighting

Instructions

Contain runoff from fire control or dilution water - Runoff may pollute waterways.

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 up and shovel) and place in suitable containers for disposal (see SECTION 13).

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

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 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. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use

personal protective equipment as required (see SECTION 8).

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

heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10).

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- 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; TWA = 3 mg/m3 (respirable dust).

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/particulate filter respirator (refer to AS/NZS 1715 & 1716).

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

- Hand protection: Handle with gloves. Recommended: Impervious gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended:

Overalls, safety shoes.

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 re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES



Physical State Solid

Appearance Crystalline powder, granules, pearls

Odour Odourless

ColourWhite or off-whitepH~7 (aqueous soln.)Vapour PressureNo Data AvailableRelative Vapour DensityNo Data Available

Boiling Point 1,689 °C **Melting Point** 1,067 °C

Freezing PointNo Data Available **Solubility**120 g/L in water 25°C

Specific Gravity 2.66

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 No Data Available **Decomposition Temperature** Density No Data Available **Specific Heat** No Data Available

Molecular Weight 174.26

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 CharacteristicsNo information available.Potential for Dust ExplosionNo information available.Fast or Intensely BurningNo information available.

Characteristics

Flame Propagation or Burning

Rate of Solid Materials

Non-Flammables That Could

Contribute Unusual Hazards to a

Fire

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, toxic and/or corrosive fumes, including oxides of Sulfur, oxides of Potassium.

Release of Invisible Flammable

Vapours and Gases

No information available.

No information available.

No information available.

10. STABILITY AND REACTIVITY

General Information No information available.

Chemical Stability Stable under recommended storage conditions.

Conditions to Avoid Avoid generating dust.



Materials to Avoid Incompatible/reactive with strong oxidising agents.

Hazardous Decomposition

Products

Fire or heat may produce irritating, toxic and/or corrosive fumes, including oxides of Sulfur, oxides of Potassium.

Hazardous Polymerisation Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information Information on possible routes of exposure:

- Ingestion: May cause gastrointestinal disturbance, nausea and vomiting.

Eye contact: May cause eye irritation.Skin contact: May cause mild skin irritation.

- Inhalation: Dust may cause respiratory tract irritation.

Chronic effects: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: 6,600 mg/kg

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

- LC50, Fish (Fathead minnow): 680 mg/L (96 h) [EPA Guidelines; ECHA].
- EC50, Crustacea (Daphnia magna): 720 mg/L (48 h) [EPA Guidelines; ECHA].

Persistence/Degradability No information available.

Mobility No information available.

Environmental Fate Prevent entry into drains and waterways.

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.

Special Precautions for Land Fill No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name
Potassium Sulphate
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

NON-DANGEROUS GOODS: Not regulated for LAND transport. Comments

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Potassium sulphate 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

No Data Available Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Special Provision

Proper Shipping Name Potassium Sulphate 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

NON-DANGEROUS GOODS: Not regulated for LAND transport. Comments

Land Transport (United States of America)

US DOT

Proper Shipping Name Potassium Sulphate No Data Available Class Subsidiary Risk(s) No Data Available No Data Available **UN Number** No Data Available No Data Available

Hazchem **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 Potassium Sulphate 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
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 ClassificationNOT 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 InformationNo Data AvailablePoisons 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 (AICS) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) 231-915-5

Europe (REACh)Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined



Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Listed

16. OTHER INFORMATION

Related Product Codes

POSULA1000, POSULA1001, POSULA1002, POSULA1003, POSULA1004, POSULA1005, POSULA1006, POSULA1100, POSULA1200, POSULA1400, POSULA1500, POSULA1600, POSULA2000, POSULA2001, POSULA2002, POSULA2100, POSULA2101, POSULA2500, POSULA2501, POSULA2900, POSULA3000, POSULA3001, POSULA3100, POSULA3200, POSULA3300, POSULA3400, POSULA3500, POSULA3900, POSULA3901, POSULA4000, POSULA4001, POSULA4100, POSULA4101, POSULA4200, POSULA4201, POSULA4500, POSULA4501, POSULA4700, POSULA4701, POSULA5000, POSULA5001, POSULA5100, POSULA5500, POSULA5700, POSULB1000, POSULB1500, POSULP0500, POSULP0600, POSULP0601, POSULP0602, POSULP0603, POSULP0700, POSULP0701, POSULP0702, POSULP0703, POSULP0704, POSULP1000, POSULP1000, POSULP1001, POSULP1002, POSULP1003, POSULP1004, POSULP1005, POSULP1006, POSULP1007, POSULP1008, POSULP1009, POSULP1010, POSULP1011, POSULP1012, POSULP1013, POSULP1014, POSULP1015, POSULP1016, POSULP1017, POSULP1018, POSULP1019, POSULP1020, POSULP1021, POSULP1022, POSULP1025, POSULP1030, POSULP1050, POSULP1055, POSULP1056, POSULP1063, POSULP1064, POSULP1100, POSULP1200, POSULP1300, POSULP1301, POSULP1400, POSULP1500, POSULP1501, POSULP1502, POSULP1503, POSULP1504, POSULP1505, POSULP1506, POSULP1507, POSULP1510, POSULP1600, POSULP1700, POSULP1800, POSULP1801, POSULP1802, POSULP1803, POSULP1804, POSULP1805, POSULP1806, POSULP1807, POSULP1808, POSULP1809, POSULP1810, POSULP1811, POSULP1812, POSULP1813, POSULP1814, POSULP1815, POSULP1816, POSULP1817, POSULP1818, POSULP1819, POSULP1820, POSULP1821, POSULP1822, POSULP1823, POSULP1824, POSULP1825, POSULP1826, POSULP1827, POSULP1828, POSULP1829, POSULP1830, POSULP1831, POSULP1832, POSULP1900, POSULP2000, POSULP2001, POSULP2002, POSULP2020, POSULP2021, POSULP2022, POSULP2023, POSULP2024, POSULP2025, POSULP2026, POSULP2027, POSULP2200, POSULP2500, POSULP2501, POSULP2502, POSULP2600, POSULP2700, POSULP2800, POSULP2802, POSULP2900, POSULP3000, POSULP3010, POSULP3500, POSULP3600, POSULP3700, POSULP3800, POSULP3900, POSULP4000, POSULP4001, POSULP4002, POSULP4100, POSULP4200, POSULP4201, POSULP4202, POSULP4203, POSULP4300, POSULP4400, POSULP4401, POSULP4402, POSULP4404, POSULP4500, POSULP4600, POSULP4700, POSULP4701, POSULP4800, POSULP4801, POSULP4900, POSULP5000, POSULP5001, POSULP5100, POSULP5102, POSULP5103, POSULP5104, POSULP5500, POSULP6200, POSULP6201, POSULP6202, POSULP6203, POSULP6204, POSULP6205, POSULP6206, POSULP6207, POSULP6300, POSULP6301, POSULP6302, POSULP6500, POSULP7000, POSULP7001, POSULP7500, POSULP7501, POSULP7502, POSULP7503, POSULP7510, POSULP8000, POSULP8800, POSULP9000, POSULP9500, POSULP9600, POSULP9601, POSULP9800, POSULP9801, POSULP9802, POSULP9803, POSUPH1000

Revision

Revision Date Key/Legend

30 May 2019

< 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/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

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

