

1. IDENTIFICATION

Product Name	Ammonium Persulphate			
Other Names	Ammonium persulfate ((NH ₄) ₂ S ₂ O ₈); Peroxydisulfuric Acid (((Ho)S(O) ₂) ₂ O ₂), Diammonium Salt			
Uses	Oxidizing agents, polymerisation initiators			
Chemical Family	No Data Available			
Chemical Formula	H ₃ N.1/2H ₂ O ₈ S ₂			
Chemical Name	Ammonium Persulphate			
Product Description	No Data Available			
Contact Information	Organisation	Location	Telephone	Ask For
	Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000	SDS Officer
	Redox Pty Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222	
	Redox Inc.	2132A E. Dominguez Street Carson CA 90810 USA	+1-424-675-3200	
	Redox Chemicals Sdn Bhd	No. 8, Block G, Ground Floor, Taipan 2 Jalan PJU 1A/3 Ara Damansara 47301, Petaling Jaya, Selangor, Malaysia	+60-3-7843-6833	
	Poisons Information Centre	Westmead NSW	1800-251525 131126	
	Chemcall	Australia	1800-127406	
	Chemcall	New Zealand	+64-4-9179888	

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) No Data Available

Safe Work Australia

Approved Criteria for Classifying Hazardous Substances (NOHSC:1008(2004))

Hazard Classification Hazardous according to the criteria of Safe Work Australia [NOHSC:1008(2004)]

Hazard Categories

O	Oxidising
Xn	Harmful

Safe Work Australia

National Code of Practice for the Labelling or Workplace Substances (NOHSC:2012(1994))

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Brisbane
Melbourne
Perth
Sydney

New Zealand
Auckland
Christchurch
Hawke's Bay

Malaysia
Kuala Lumpur
USA
Los Angeles



Risk Phrases	R22	Harmful if swallowed.
	R36/37/38	Irritating to eyes, respiratory system and skin.
	R42/43	May cause sensitisation by inhalation and skin contact.
	R8	Contact with combustible material may cause fire.
Safety Phrases	S17	Keep away from combustible material.
	S22	Do not breathe dust.
	S24	Avoid contact with skin.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S3	Keep in a cool place.
	S37	Wear suitable gloves.
	S51	Use only in well ventilated areas.
	S7	Keep container tightly closed.

National Transport Commission (Australia)

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

Dangerous Goods Classification 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
Ammonium Persulfate	No Data Available	7727-54-0	100.00 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Clean mouth with water and drink afterwards plenty of water. If a person vomits when lying on his back, place him in the recovery position. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.
Skin	Remove contaminated clothing. Wash affected area with plenty of Soap and water for at least 15 minutes. Seek immediate medical attention. Wash clothing before reuse.
Inhaled	Remove to fresh air. Call a physician immediately.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.
Medical Conditions Aggravated by Exposure	No information available on medical conditions aggravated by exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT move cargo if cargo has been exposed to heat.
Flammability Conditions	Product is a non-flammable solid. However, product is an oxidizer and will support combustion of other material.



Extinguishing Media	Water Do NOT use high volume water jet. Cool closed containers exposed to fire with water spray. Fight any surrounding fire with suitable fire-extinguishing agents. Flood small amounts of decomposing products with water (add foaming agent to the water for better penetration). Control smoke with water spray.
Hazardous Products of Combustion	No Data Available
Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment. Dam fire control water for later disposal.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	not auto-flammable
Hazchem Code	1Z

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Avoid accidents, clean up immediately. Slippery when spilled. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Use clean, non-sparking tools and equipment. Do NOT contaminate. Keep combustibles away from spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Ensure adequate ventilation, especially in confined areas.
Clean Up Procedures	Remove mechanically and with care (e.g. with clean polyethylene plastic shovel). Avoid dust formation. Transfer to a suitable, labelled container and dispose of promptly as hazardous waste.
Containment	Stop leak if safe to do so. Isolate the danger area.
Decontamination	Wash small residues with plenty of water.
Environmental Precautionary Measures	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
Evacuation Criteria	Evacuate all unnecessary personnel.
Personal Precautionary Measures	Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Product is hygroscopic. Never pour product residue back into storage container. Risk of decomposition. Keep away from combustible materials. Avoid dust formation.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage.



Store away from incompatible materials as listed in section 10.
 Keep away from heat.
 Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
 Protect from moisture.
 Store apart from other dangerous and incompatible substances.
 This product has a UN classification of 1444 and a Dangerous Goods Class 5.1 (Oxidiser) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General The following exposure standard has been established by The Australian Safety and Compensation Council (ASCC);
 Product Name: Ammonium Persulfate CAS number: 7727-54-0 TWA = 0.01mg/m³ Peak Limitation

Exposure Limits No Data Available

Biological Limits No information available on biological limit values for this product.

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. Adequate ventilation should be provided so that exposure limits are not exceeded.

Personal Protection Equipment RESPIRATOR: Wear a Respirator with filter type ABEK (AS1715/1716).
 EYES: Tightly fitting safety goggles, Face protection (AS1336/1337).
 HANDS: Material : butyl-rubber. Glove thickness: 0,5 mm. Break through time: >= 8 h (AS2161).
 CLOTHING: Protective suit and safety footwear (AS3765/2210).

Work Hygienic Practices Skin should be washed after contact.
 Remove and wash contaminated clothing before re-use.
 Wash hands before breaks and immediately after handling the product.
 Keep away from food, drink and animal feedingstuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Solid

Odour Not significant

Colour White

pH 4 = 1% water - 3 = 10% in water

Vapour Pressure No Data Available

Relative Vapour Density No Data Available

Boiling Point Decomposition

Melting Point Decomposes before melting

Freezing Point No Data Available

Solubility 850g/L25°C

Specific Gravity No Data Available

Flash Point No Data Available

Auto Ignition Temp not auto-flammable

Evaporation Rate No Data Available

Bulk Density No Data Available

Corrosion Rate No Data Available

Decomposition Temperature ca. 130degC, SADT-Observeddecomposition>60degC°C

Density 1.1g/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	No Data Available
VOC Volume	No Data Available
Additional Characteristics	Explosive properties : Not explosive Oxidizing properties : Sustains combustion
Potential for Dust Explosion	No Data Available
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

10. STABILITY AND REACTIVITY

General Information	Oxidising Solid. Product is hygroscopic. Chemical stability: Contact with incompatible substances can cause disintegration at or below SADT. Possibility of hazardous reactions: Even small amounts of moisture or impurities can noticeably reduce SADT.
Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Keep away from heat and sources of ignition. Protect from moisture.
Materials to Avoid	Accelerators, strong acids and bases, heavy metal salts, reduction mediums, Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
Hazardous Decomposition Products	Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. Thermal decomposition : ca. 130 deg C. Method: SADT (UN test H.4) Note: SADT possible at temperatures above approximately 130 deg C. Observable decomposition at temperatures > 60 deg C (product in delivery form).
Hazardous Polymerisation	No Data Available

11. TOXICOLOGICAL INFORMATION

General Information	Acute oral toxicity : LD50 rat: > 700 mg/kg Acute inhalation toxicity : LC50 rat: > 2,95 mg/l. Exposure time: 4 h Acute dermal toxicity : LD50 rat: > 2.000 mg/kg Sensitisation : Species: guinea pig. Method: Maximisation Test. Causes sensitization. Genotoxicity in vitro : Result: Not mutagenic in Ames Test. STOT - single exposure: diammonium peroxodisulphate : May cause respiratory irritation.
EyeIrritant	Irritating to eyes.
Ingestion	Harmful if swallowed.
Inhalation	Irritating to respiratory system. May cause sensitisation by inhalation.
SkinIrritant	Irritating to skin. May cause sensitisation by skin contact.
Carcinogen Category	No Data Available



12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 76,3 mg/l. Exposure time: 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia): 120 mg/l. Exposure time: 48 h Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 83,7 mg/l. Exposure time: 72 h Toxicity to bacteria : EC10 (Bacteria): 36 mg/l. Exposure time: 18 h
Persistence/Degradability	No Data Available
Mobility	Soluble in water.
Environmental Fate	Avoid contaminating waterways, drains and sewers.
Bioaccumulation Potential	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Land Fill	Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	AMMONIUM PERSULPHATE
Class	5.1 Oxidising Substances
Subsidiary Risk(s)	No Data Available
EPG	31 Oxidizing Substances
UN Number	1444
Hazchem	1Z
Pack Group	III
Special Provision	No Data Available

Sea Transport

IMDG Code

Proper Shipping Name	AMMONIUM PERSULPHATE
Class	5.1 Oxidising Substances
Subsidiary Risk(s)	No Data Available
UN Number	1444
Hazchem	1Z
Pack Group	III
Special Provision	No Data Available
EMS	FA,SQ
Marine Pollutant	No



Air Transport

IATA

Proper Shipping Name	AMMONIUM PERSULPHATE
Class	5.1 Oxidising Substances
Subsidiary Risk(s)	No Data Available
UN Number	1444
Hazchem	1Z
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	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)	No Data Available

National/Regional Inventories

Australia (AICS)	Listed
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16. OTHER INFORMATION

Related Product Codes	AMPERS1000, AMPERS1001, AMPERS1002, AMPERS1003, AMPERS1004, AMPERS1005, AMPERS1006, AMPERS1007, AMPERS1008, AMPERS1009, AMPERS1010, AMPERS1011, AMPERS1012, AMPERS1013, AMPERS1014, AMPERS1015, AMPERS1016, AMPERS1017, AMPERS1018, AMPERS1019, AMPERS2000, AMPERS2001, AMPERS2002, AMPERS2003, AMPERS2004, AMPERS2005, AMPERS2500, AMPERS3000, AMPERS3500, AMPERS3501, AMPERS3502, AMPERS3503, AMPERS3504, AMPERS3505, AMPERS3506, AMPERS3507, AMPERS3508, AMPERS3509, AMPERS3510, AMPERS3511, AMPERS3512, AMPERS3513, AMPERS3514, AMPERS3515, AMPERS3516, AMPERS3517, AMPERS3518, AMPERS3519, AMPERS3520, AMPERS3521, AMPERS3522, AMPERS3523, AMPERS3524, AMPERS3525, AMPERS3526, AMPERS3527, AMPERS3528, AMPERS3529, AMPERS3530, AMPERS3531, AMPERS3532, AMPERS3533, AMPERS3534, AMPERS3600, AMPERS3601, AMPERS3800, AMPERS4000, AMPERS4001, AMPERS5000, AMPERS6000, AMPERS6500, AMPERS7000, AMPERS7200, AMPERS7500, AMPERS7501, AMPERS7600, AMPERS8000, AMPERS9000, AMPERS9100, AMPERS9200, AMPERS9300, AMPERS9500
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Revision	2
Revision Date	16 Nov 2011
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</p>



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

