



Safety Data Sheet

SODIUM PYROPHOSPHATE

1. IDENTIFICATION

Product name: SODIUM PYROPHOSPHATE

Synonyms

Sodium pyrophosphate

Tetrapotassium pyrophosphate

Diphosphoric acid, tetrapotassium salt; potassium diphosphate tetrabasic; tetrapotassium diphosphate

Product Code

567

Recommended use: FOOD ADDITIVE. USED AS EMULSIFIER, TISSUE MODIFIER, CHELATING AGENT ETC.

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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 Serious Eye Damage/Irritation - Category 2A Acute Toxicity (Oral) - Category 4

Pictograms



Signal Word Warning

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.

Precautionary Statements Prevention **P264** Wash exposed skin thoroughly after handling.



Safety Data Sheet

SODIUM PYROPHOSPHATE

	P280	Wear protective gloves/eye protection/face protection.
	P270	Do not eat, drink or smoke when using this product.
Response	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P332 + P313	If skin irritation occurs: Get medical advice/attention.
	P337 + P313	If eye irritation persists: Get medical advice/attention.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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
Dangerous

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Goods by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Tetrapotassium Pyrophosphate	No Data Available	7320-34-5	100.0 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Do not induce vomiting. If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Rinse mouth and get medical attention immediately. Do not leave victim unattended, vomiting may occur spontaneously.
Eye	Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. Remove contact lenses if worn. Seek medical attention immediately. In all cases of eye contamination, it is a sensible precaution to seek medical advice.
Skin	Remove contaminated clothing. Wash affected area with plenty of soap and water for at least 15 minutes. Seek medical attention. Wash clothing before reuse.
Inhaled	Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient. Show this SDS.

Medical Conditions Aggravated by Exposure

No information available on medical conditions aggravated by exposure to this product.

5. FIRE FIGHTING MEASURES



Safety Data Sheet

SODIUM PYROPHOSPHATE

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.

Flammability Conditions

Not combustible

Extinguishing Media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Hazardous Products of Combustion

Oxides of phosphorus, potassium oxides.



Safety Data Sheet

SODIUM PYROPHOSPHATE

Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
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).
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	Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment. Avoid breathing vapours, mist or gas. Avoid breathing dust
Clean Up Procedures	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. 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.
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	Personnel involved in the clean up should wear full 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 dust/fumes. Product is hygroscopic.
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. Product is hygroscopic. This product is not classified dangerous for transport 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	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m ³ (for inspirable dust) and 3mg/m ³ (for respirable dust).
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: For nuisance exposures use type P95 or type P1 particle respirator. For higher level protection use



Safety Data Sheet

SODIUM PYROPHOSPHATE

type OV/AG/P99 or type ABEK-P2 respirator cartridges. Use respirators and components tested and approved under appropriate government standards (AS1715/1716).

EYES: Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards (AS1336/1337).

HANDS: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of (AS2161).

CLOTHING: Impervious clothing and safety shoes, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace (AS3765/2210).

Work Hygienic Practices

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Solid
Odour	No Data Available
Colour	White
pH	No Data Available
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	1090 °C
Freezing Point	No Data Available
Solubility	No Data Available
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	2.33 g/cm ³ Relative
Specific Heat	No Data Available
Molecular Weight	330.34 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



Safety Data Sheet

SODIUM PYROPHOSPHATE

Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No Data Available
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

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Avoid moisture. Dusty conditions.
Materials to Avoid	Avoid strong oxidising agents.
Hazardous Decomposition Products	No Data Available
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	LD50 Dermal - rabbit - >4640mg/kg Eyes - rabbit Result: Moderate eye irritation (OECD Test Guideline 405)
Eyelrritant	Causes cause severe irritation. May cause redness, burns.
Ingestion	May be harmful if swallowed. May cause burns to mouth and oesophagus, nausea, vomiting and diarrhoea.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
SkinIrritant	May be harmful if absorbed through skin. Causes moderate skin irritation.
Carcinogen Category	No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological information available for this product
Persistence/Degradability	No information available on persistence/degradability for this product.



Safety Data Sheet

SODIUM PYROPHOSPHATE

Mobility	No information available on mobility for this product.
Environmental Fate	Do NOT let product reach waterways, drains and sewers
Bioaccumulation Potential	No information available on bioaccumulation for this product
Environmental Impact	No Data Available



Safety Data Sheet

SODIUM PYROPHOSPHATE

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

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of contaminated packaging as unused product.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	Tetrapotassium Pyrophosphate
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	Tetrapotassium Pyrophosphate
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

Proper Shipping Name	Tetrapotassium Pyrophosphate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available



Safety Data Sheet

SODIUM PYROPHOSPHATE

Pack Group

No Data Available

Special Provision

No Data Available

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Safety Data Sheet

SODIUM PYROPHOSPHATE

Dangerous Goods Classification

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15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) Not scheduled

National/Regional Inventories

Australia (AICS)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Listed
Europe (EINECS)	230-785-7
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Listed
Korea (KECI)	Listed
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

16. OTHER INFORMATION

Related Product Codes

POPYRF1000, POPYRF1001, POPYRF1002, POPYRF1100, POPYRF1101, POPYRF1500, POPYRF2000, POPYRF2100, POPYRF2400, POPYRF2500, POPYRF3000, POPYRF3300, POPYRF3500, POPYRF3700, POPYRF4000, POPYRF4500, POPYRF5000, POPYRF5200, POPYRF6000, POPYRF6100, POPYRF7000, POPYRF7100, POPYRF7300, POPYRF7500, POPYRF8000, POPYRF8100, POPYRF8101, POPYRF8102, POPYRF8102, POPYRO1000, POPYRO1001, POPYRO1002, POPYRO1003, POPYRO1004, POPYRO1005, POPYRO1006, POPYRO1007, POPYRO1008, POPYRO1009, POPYRO1010, POPYRO1011, POPYRO1012, POPYRO1013, POPYRO1014, POPYRO1015, POPYRO1016, POPYRO1600, POPYRO1601, POPYRO1602, POPYRO1603, POPYRO1604, POPYRO1605, POPYRO1606, POPYRO1607, POPYRO2000, POPYRO2001, POPYRO2002, POPYRO2500, POPYRO3000, POPYRO3001, POPYRO3002, POPYRO3003, POPYRO3004, POPYRO3005,



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Safety Data Sheet



SODIUM PYROPHOSPHATE

POPYRO3100, POPYRO3300, POPYRO3500, POPYRO4000, POPYRO4001, POPYRO4002, POPYRO4500, POPYRO5000, POPYRO6000, POPYRO6500, POPYRO7000, POPYRO8000, POPYRO8100, POPYRO9000, POPYRO1800, POPYRO1801, POPYRO1802, POPYRO1803, POPYRO1804, POPYRO1805, POPYRO1806, POPYRO1807, POPYRO1808, POPYRO1809, POPYRO1810, POPYRO1811, POPYRO1812, POPYRO1813, POPYRO1814, POPYRO3006, POPYRO3400, POPYRF7200, POPYRF7240, POPYRF5100, POPYRO3401, POPYRO3301



RINSE AID VALUE

Safety Data Sheet

Additional Information

ABBREVIATIONS:

ADB - Air-Dry Basis.
BEI - Biological Exposure Indice(s)
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EINECS - European Inventory of Existing Commercial Substances.
GHS – Globally Harmonized System
IARC - International Agency for Research on Cancer.
M - moles per litre, a unit of concentration.
mg/m³ - Milligrams per cubic meter.
NOS - Not Otherwise Specified.
NTP - National Toxicology Program.
OSHA - Occupational Safety and Health Administration.
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a UDS Pty Ltd report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this UDS Pty Ltd report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This Safety Data Sheet document has been compiled by UDS Pty Ltd. Further clarification regarding any aspect of this product should contact UDS Pty Ltd directly. While UDS Pty Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, UDS Pty Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.