



Infosafe No™	1CHGC	Issue Date : June 2019	RE-ISSUED by CHEMSUPP
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Product Name : **PYRIDINE AR**

Classified as hazardous

1. Identification

GHS Product Identifier	PYRIDINE AR
Product Code	PA164
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)
Recommended use of the chemical and restrictions on use	Synthesis of vitamins and drugs, solvent waterproofing, rubber chemicals, denaturant for alcohol and anti-freeze mixtures, dyeing assistant in textiles, fungicides and laboratory reagent.

Other Names	<u>Name</u>	<u>Product Code</u>
	Azine, Azabenzene PYRIDINE	
Additional Information	Drug precursor.	

Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture	Flammable Liquids: Category 2 Acute Toxicity - Dermal: Category 4 Acute Toxicity - Inhalation: Category 4 Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 1C Specific Target Organ Toxicity - Repeated Exposure Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H314 Causes severe skin burns and eye damage. H373 May cause damage to organs through prolonged or repeated exposure.
Pictogram (s)	Flame, Corrosion, Exclamation mark, Health hazard



Precautionary statement – Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling.
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Precautionary statement – Response	<p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P370+P378 In case of fire: Use dry sand, dry chemical or alcohol for extinction.</p>
Precautionary statement – Storage	<p>P403+P235 Store in a well-ventilated place. Keep cool.</p>
Precautionary statement – Disposal	<p>P405 Store locked up.</p> <p>P501 Dispose of contents/container to an approved waste disposal plant.</p>

3. Composition/information on ingredients

Chemical Characterization	Liquid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Pyridine	110-86-1	100 %		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. If breathing is difficult, give oxygen. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.
Skin	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire (Oxides of carbon and nitrogen). Vapours may travel considerable distance to source of ignition and flash back.
Specific Methods	Small fire: Use alcohol foam, dry chemical, CO2 or water spray. Large fire: Use water spray, fog or foam - Do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.
Specific hazards arising from the chemical	May be ignited by heat, sparks or flames. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air and will spread along the ground and collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Fire may produce irritating, poisonous or corrosive gases. Vapours from run-off may create an explosion hazard.
Hazchem Code	•2WE
Precautions in connection with Fire	Wear SCBA and fully encapsulating, gas-tight suit when handling these substances. Structural firefighter's uniform is NOT effective for these materials.



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6. Accidental release measures

Spills & Disposal	Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. All equipment in handling this product must be earthed. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Vapour suppressing foam may be used to control vapours. Water spray may be used to knock down or divert vapours. Absorb spill with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Precautions	Remove ignition sources Evacuate the area of all non-essential personnel. Take precautionary measures against static discharge.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.
Environmental Precautions	Use appropriate containment to avoid environmental contamination. Prevent from entering into drains, ditches, rivers or the sea.

7. Handling and storage

Precautions for Safe Handling	Avoid prolonged or repeated contact with skin, eyes and clothing . Avoid breathing vapour, spray or mists. Take precautionary measures against static discharges. All electrical equipment must be flameproofed. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment.
Conditions for safe storage, including any incompatibilities	Store in cool place and out of direct sunlight. Store in well ventilated area. Store away from sources of heat or ignition. Store away from oxidizing agents. Store away from acids. Keep containers securely sealed and protected against physical damage.
Storage Regulations	Refer Australian Standard AS 1940-2017 'The storage and handling of flammable and combustible liquids'.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Pyridine			16	5	
Other Exposure Information	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Pyridine (Safe Work Australia) of 16 mg/m3, (5 ppm). The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.					
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.					
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.					
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.					
Hand Protection	Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by					



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Personal Protective Equipment	appropriate risk assessments. Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Liquid
Appearance	Colourless or slightly yellow liquid.
Odour	Penetrating; unpleasant; disagreeable; 'fishy' odour.
Melting Point	-42 °C
Boiling Point	115.5 °C
Solubility in Water	Soluble.
Solubility in Organic Solvents	Soluble in all proportions in alcohol, ether, chloroform, petroleum ether, benzene, ligroin and fatty oils.
Specific Gravity	0.98
pH	pH 8.5 (~16g/l at 20°C).
Vapour Pressure	26.7 hPa at 25.0°C
Vapour Density (Air=1)	2.73 (air = 1)
Odour Threshold	0.013 - 4.2 ppm Pyridine can normally be detected by smell at levels well below the TLV. However, perception of the odour may decline quickly due to olfactory fatigue.
Partition Coefficient: n-octanol/water	Log P(o/w): 0.8
Flash Point	17.0°C (CC)
Flammability	Flammable liquid.
Auto-Ignition Temperature	482 deg C
Flammable Limits - Lower	1.8%
Flammable Limits - Upper	12.4%
Molecular Weight	79.10
Other Information	Refractive index: 1.50920

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Heat and sunlight can contribute to instability.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Strong acids, formamide, iodine, fluorine, halogen-halogen compounds, maleic anhydride, nitric acid, nitrogen oxides, sulfur oxides, anhydrides, strong oxidising agents, perchlorates, chromates/perchromate, bromine trifluoride, chromium trioxide and beta proliactone.
Hazardous Decomposition Products	Carbon and nitrogen oxides, cyanides.
Possibility of hazardous reactions	May react violently in contact with strong acids, formamide or iodine. Decomposes in contact with maleic anhydride with liberation of gases and heat. May react vigorously or explosively in contact with strong oxidising agents. Pyridine-metal perchlorate complexes are explosive. Contact with silver perchlorate forms shock-sensitive solvated salts. Heating a mixture of perchromate and pyridine can lead to an



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Hazardous Polymerization explosion.
Will not occur.

11. Toxicological Information**Acute Toxicity - Oral** LD50 (rat): 891 mg/kg (RTECS)**Acute Toxicity - Dermal** LD50 (rabbit): 1121 mg/kg (RTECS)**Ingestion**

Harmful if swallowed. May cause irritation of the mouth and throat, headaches, nausea, vomiting, diarrhoea, frequent urination, dizziness, insomnia, nervousness, loss of appetite, anorexia and abdominal pain. May cause liver and kidney damage, convulsions, unconsciousness and death.

Inhalation

Harmful by inhalation. Vapour may irritate the mucous membranes in the nose, throat and upper respiratory tract. May cause headaches, coughing, nausea, vomiting, diarrhoea, frequent urination, dizziness, nervousness, insomnia, loss of appetite, anorexia and abdominal pain. These effects normally disappear soon after exposure ceases. Extreme exposures may cause liver and kidney damage, convulsions, unconsciousness and death.

Skin

Harmful in contact with skin. May be harmful if absorbed through skin. May cause smarting of the skin and first-degree burns on short exposure.

Eye

Vapour may cause eye irritation. Liquid may cause severe irritation and corrosive damage (burns) to the surface of the eye. Risk of serious damage to eyes.

Carcinogenicity

Not classified as a human carcinogen.

Chronic Effects

Prolonged or repeated exposure can affect the nervous system and cause damage to the liver or kidneys. Repeated or prolonged skin contact may cause chronic dermatitis. May be a photosensitizer - Pyridine absorbed in the skin might cause severe skin eruptions in areas exposed to sunlight.

Mutagenicity

No evidence of mutagenic effects.

12. Ecological information**Persistence and degradability** Soluble in water persistence unlikely.**Bioaccumulative Potential** No appreciable bioaccumulation is to be expected (log P(o/w) 1-3).
Log P(o/w): 0.8**Environmental Protection** Do not allow product to enter drains, waterways or sewers.**Acute Toxicity - Fish** LC50 (Pimephales promelas): 93.8 mg/l/96 h (in soft water).**Acute Toxicity - Daphnia** EC50 (Daphnia magna): 940 mg/l/48 h**13. Disposal considerations****Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.**14. Transport information****Transport Information** Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following:
Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane, Class 7.**U.N. Number** 1282**UN proper shipping name** PYRIDINE**Transport hazard class(es)** 3**Hazchem Code** •2WE**Packing Group** II**EPG Number** 3A3**IERG Number** 19**15. Regulatory information**



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Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). All of the significant ingredients in this formulation are compliant with NICNAS regulations.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	<p>'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.</p> <p>Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.</p> <p>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.</p> <p>Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.</p> <p>Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.</p> <p>Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.</p> <p>Safe Work Australia, 'Hazardous Chemical Information System, 2005'.</p> <p>Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.</p> <p>Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.</p>
Contact Person/Point	<p>Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:</p> <p>All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.</p>

Empirical Formula & C5H5N**Structural Formula**

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