



Infosafe No™	3CH70	Issue Date : September 2019	RE-ISSUED by CHEMSUPP
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Product Name : **FORMAMIDE**

Classified as hazardous

1. Identification

GHS Product Identifier FORMAMIDE

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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Other Names

Name	Product Code
FORMAMIDE LR	FL077

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 Toxic to Reproduction: Category 1B
Specific target organ toxicity - Repeated Exposure, Oral Category 2, Blood

Signal Word (s) DANGER

Hazard Statement (s) H360 May damage fertility or the unborn child.
H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

Pictogram (s) Health hazard



Precautionary statement – Prevention P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P281 Use personal protective equipment as required.

Precautionary statement – Response P308+P313 IF exposed or concerned: Get medical advice/attention.

Precautionary statement – Storage P405 Store locked up.

Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Formamide	75-12-7	100 %		

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not



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Ingestion	breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.
Skin	Wash skin with water using soap if available. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
Eye contact	Wash with large amounts of water for approximately 15 minutes, holding eyelids open. Seek medical attention if irritation develops or persists.
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 including carbon monoxide, hydrogen cyanide, ammonia and nitrogen oxides.
Specific Methods	Small fire: Use dry chemical, CO ₂ , water spray. Large fire: The use of water spray or foam. 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.
Specific hazards arising from the chemical	May burn but do not ignite readily. Fumoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.
Decomposition Temp.	>180 °C
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal	Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas.
Personal Precautions	Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.
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.

7. Handling and storage

Precautions for Safe Handling	Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material. Avoid contact with eyes, skin and clothing. Keep material away from sparks, flames and other ignition sources.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed and in a cool, well-ventilated place. Keep away from sources of ignition. Protect from direct sunlight and moisture.
Corrosiveness	Corrosive to metals and natural rubber.
Storage Temperatures	Hygroscopic liquid. Store in dry, cool place. Store between 15 - 25 °C.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m ³	ppm	mg/m ³	ppm	
	Formamide			18	10	Sk
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					



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	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) concentration for Formamide (Safe Work Australia) of 18 mg/m ³ , (10 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 5 day working week. A 'skin' notation indicates that this substance will also be readily absorbed through the skin, which may be by airborne material or direct contact. The TLV is obviously invalidated if such contact should occur. In industrial situations maintain the concentrations values below the TWA. This may be achieved by
Appropriate engineering controls	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 dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
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 appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	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. 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 to yellowish liquid.
Odour	Almost odourless, slight ammoniacal.
Decomposition Temperature	>180 °C
Melting Point	2 - 2.5 °C
Boiling Point	210 °C
Solubility in Water	Soluble.
Solubility in Organic Solvents	Soluble in ethanol.
Specific Gravity	1.13 g/cm ³
pH	pH 7.1 (2.3 % solution); pH 4 - 5 (200 g/l H ₂ O, 20 °C).
Vapour Pressure	0.13 kPa (70 °C)
Vapour Density (Air=1)	1.6
Partition Coefficient: n-octanol/water	logP(o/w): -1.51
Flash Point	154 °C
Flammability	Combustible.
Flammable Limits - Lower	2.7 Vol%



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Flammable Limits - 19 Vol %**Upper****Molecular Weight** 45.04**10. Stability and reactivity****Chemical Stability** Stable under normal use conditons. Hygroscopic**Conditions to Avoid** Strong heating. Incompatibles.**Incompatible** Oxidising agents, acids, bases, iodine, pyridine, sulphur trioxide and water separating agents.**Materials** Aluminium, iron, copper, natural rubber.**Hazardous** May librate toxic fumes in fire including carbon monoxide, hydrogen cyanide, ammonia and nitrogen oxides.**Decomposition****Products****Possibility of** Corrosive to metals and natural rubber.**hazardous reactions****Hazardous** Will not occur.**Polymerization****11. Toxicological Information****Acute Toxicity - Oral** LD50 (Rat): 5,325 mg/kg**Acute Toxicity -** LD50 (Rat): >3,000 mg/kg**Dermal****Acute Toxicity -** LC50 (Rat) 21mg/l 4hr**Inhalation****Ingestion** Ingestion may cause abdominal pain. May result in liver and kidney damage.**Inhalation** Inhalation of product may cause drowsiness, headaches and nuasea.**Skin** May cause skin irritation.**Eye** May cause irritation to the eyes.**STOT-repeated** Specific target organ toxicity - Repeated Exposure, Oral Category 2, Blood
exposure H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.**Chronic Effects** Repeated or prolonged exposure to the skin may cause eczema. Ingestion of larger amounts of product may lead to damage of the central nervous system, liver and kidneys.**Mutagenicity** Toxic to Reproduction: Category 1B
H360 May damage fertility or the unborn child.**12. Ecological information****Ecological** No ecological problems are to be expected when the product is handled and used with due care and
Information attention.**Persistence and** Readily biodegradable.**degradability** Biochemical oxygen demand (BOD): 1.6%/6h

Biochemical oxygen demand (BOD): 4.7%/12h

Biochemical oxygen demand (BOD): 11.8%/24h

Bioaccumulative Low probability of bioaccumulation (log P(o/w)<1)**Potential****Acute Toxicity - Fish** LC50 (L.idus): 4600-9300 mg/l /96h**Acute Toxicity -** EC50 (Daphnia magna): >500 mg/l /48h**Daphnia****Acute Toxicity -** EC50 (bacteria): >10000 mg/l /17h**Bacteria****13. Disposal considerations****Disposal** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local,
Considerations state and federal government regulations.**14. Transport information****Transport** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous
Information Goods by Road and Rail.



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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Chemical Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: 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.
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Empirical Formula & Structural Formula	HCONH2 ...End Of MSDS...

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