







SDS no. 43VKKK2G • Version 1.0 • Date of issue: 2024-09-23

SECTION 1: Identification

GHS Product identifier

Product name **FORMAMIDE**

Recommended use of the chemical and restrictions on use

Laboratory and Analytical Reagent

Supplier's details

Name ChemSupply Australia Pty Ltd Address

38-50 Bedford Street

5013 Gillman South Australia

Australia

08 8440 2000 Telephone

email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Specific target organ toxicity following repeated exposure, Cat. 2
- Toxic to reproduction, Cat. 1

GHS label elements, including precautionary statements

Pictograms



Signal word Danger

Hazard statement(s)

H360 May damage fertility or the unborn child

H373 May cause damage to organs [blood] through prolonged or repeated exposure [oral]

Precautionary statement(s)

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 45.04

Components

Component	CAS no.	Concentration
FORMAMIDE (EC no.: 200-842-0; Index no.: 616-052-00-8)	75-12-7	<= 100 % (weight)

CLASSIFICATIONS: Carcinogenicity, Cat. 2; Toxic to reproduction, Cat. 1B; Specific target organ toxicity following repeated exposure, Cat. 2. HAZARDS: H351 - Suspected of causing cancer [route]; H360 - May damage fertility or the unborn child [effect, route]; H360D - May damage the unborn child; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route].

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor (at once).

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial

respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if

cough or other symptoms appear.

In case of skin contact Wash skin with water using soap if available. Remove contaminated clothing and wash

before re-use. Seek medical advice if effects persist.

In case of eye contact Wash with large amounts of water for approximately 15 minutes, holding eyelids open.

Seek medical attention if irritation develops or persist.

If swallowed Rinse mouth thoroughly with water immediately, repeat until all traces of product have

been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO2, 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

Hazards from Combustion Products: May librate toxic fumes in fire including carbon monoxide, hydrogen cyanide, ammonia and nitrogen oxides.

May burn but do not ignite readily. Funoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.

Special protective actions for fire-fighters

Wear SCBA and structural firefigher's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Methods and materials for containment and cleaning up

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. 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.

SECTION 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 metasl and natural rubber.

Storage Temperatures: Hygroscopic liquid. Store in dry, cool place. Store between 15 - 25 °C.

SECTION 8: Exposure controls/personal protection

SDS no. 43VKKK2G • Version 1.0 • Date of issue: 2024-09-23

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

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 and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715. Selection, Use and Maintenance of Respiratory Protective Devices: and AS/NZS 1716. Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state Liquid

Appearance Colourless to yellowish liquid. Color No data available.

Almost odourless, slight ammoniacal. Odor

Odor threshold No data available. 2 - 2.5 °C Melting point/freezing point

Boiling point or initial boiling point and boiling range 210 °C

No data available. Flammability Lower and upper explosion limit/flammability limit Flammable Limits - Lower: 2.7 Vol% Flammable Limits -

Upper: 19 Vol %

Flash point 154 °C No data available. **Explosive properties**

No data available. Auto-ignition temperature >180 °C Decomposition temperature

Oxidizing properties No data available.

pH 7.1 (2.3 % solution); pH 4 - 5 (200 g/l H20, 20 °C). pН

Kinematic viscosity No data available.

Solubility Solubility in Water: Soluble. Solubility in Organic Solvents:

Soluble in ethanol. logP(o/w): -1.51

Partition coefficient n-octanol/water (log value)

Vapor pressure Evaporation rate

Density and/or relative density

Relative vapor density

Particle characteristics

SDS no. 43VKKK2G • Version 1.0 • Date of issue: 2024-09-23

0.13 kPa (70 °C) No data available.

Specific Gravity: 1.13 g/cm3

1.6

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Reacts with incompatible materials

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Corrisive to metals and natural rubber.

Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Oxidising agents, acids, bases, iodine, pyridine, sulphur trioxide and water separating agents. Aluminium,iron, copper, natural ruber.

Hazardous decomposition products

May librate toxic fumes in fire including carbon monoxide, hydrogen cyanide, ammonia and nitrogen oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD50 (Rat): 5,325 mg/kg Acute Toxicity - Inhalation: LC50 (Rat) 21mg/l 4hr

Ingestion: Ingestion may cause abdominal pain. May result in liver and kidney damage. Inhalation: Inhalation of product may cause drowsiness, headaches and nuasea.

Skin corrosion/irritation

Acute Toxicity - Dermal: LD50 (Rat): >3,000 mg/kg

May cause skin irritation.

Serious eye damage/irritation

May cause irritation to the eyes.

SDS no. 43VKKK2G • Version 1.0 • Date of issue: 2024-09-23

Safety Data Sheet FORMAMIDE

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

Toxic to Reproduction: Category 1

H360 May damage fertility or the unborn child.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

Specific target organ toxicity - Repeated Exposure, Oral Category 2, Blood

H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

Aspiration hazard

No data available.

Additional information

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.

SECTION 12: Ecological information

Toxicity

Acute Toxicity - Fish: LC50 (L.idus): 4600-9300 mg/l /96h Acute Toxicity - Daphnia: EC50 (Daphnia magna): >500 mg/l /48h

Acute Toxicity - Bacteria: EC50 (bacteria): >10000 mg/l /17h

Persistence and degradability

Biochemical oxygen demand (BOD): 1.6%/6h Biochemical oxygen demand (BOD): 4.7%/12h Biochemical oxygen demand (BOD): 11.8%/24h

Bioaccumulative potential

Low probability of bioaccumulation (log P(o/w)<1)

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

SDS no. 43VKKK2G • Version 1.0 • Date of issue: 2024-09-23

Sewage disposal

Low probability of bioaccumulation (log P(o/w)<1)

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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.

Preparation information

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. ChemSupply Australia Pty Ltd 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.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)