
Date of Issue: **May, 2008**

Material Safety Data Sheet

Hazardous according to criteria of NOHSC

Product Code: **1.01542**

L-ARGININE FOR BIOCHEMISTRY

Merck Pty. Limited
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Business Hours: 8:15am to 6:00pm
Monday through Friday

Identification

Product Name: L-ARGININE FOR BIOCHEMISTRY

Other Names: Not Applicable

Organic solid

Product Code: 1.01542

UN Number: Not subject to transport regulations.

Dangerous Goods Class & Subsidiary Risk: None allocated.

Packaging Group: None allocated.

Hazchem Code: None allocated.

Poisons Schedule Number: None allocated.

Use: General laboratory reagent.

Physical Description and Properties

Colour: off-white

Form: solid

Odour: weak

Boiling Point: Not applicable

Melting Point: 238°C (decomposition)

Vapour Pressure: No data

Vapour Density: No data

Flash Point (Open Cup): No data.

Upper Flammability Limit: No data

Lower Flammability Limit: No data

Ignition Temperature: Not applicable

Log P (o/w): -4.20

Specific Gravity or Density: ~ 0.64 (bulk)

Viscosity: Not Applicable

Solubility in Water: Soluble

pH: ~ 11.4 (10 % solution)

Other Information: Combustible: May evolve toxic fumes in fire (nitrogen oxides).
Stable.

Conditions / Substances to be avoided: Conditions to be avoided: Strong heating (decomposition).
Substances to be avoided: Strong oxidising agents.

Ingredients

Chemical Name	CAS Number	Proportion
L-arginine	74-79-3	100 %

All constituent chemicals are listed in the Australian Inventory of Chemical Substances (AICS)

Product Code: 1.01542 (L-ARGININE FOR BIOCHEMISTRY)

Health Hazard Information

Toxicological Information: Acute toxicity: LD50 > 5100 mg/kg oral, rat.
Specific symptoms in animal studies:
Eye irritation test (rabbit): Irritation.
Sub-acute to chronic toxicity:
No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects.

Carcinogen Category: No evidence of carcinogenic properties.

Mutagen Category: No evidence of mutagenic properties.

Teratogen Category: No evidence of teratogenic effects.

After eye contact: Irritation.

Further hazardous properties cannot be excluded.

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First Aid Information

Eye contact: Hold eyes open, flood with water for at least 15 minutes and see a doctor.

Inhalation: Remove from exposure.

Skin contact: Wash off thoroughly with soap and water.

Ingestion: Wash out mouth thoroughly with water. In severe cases obtain medical attention. Contact a doctor or Poisons Information Centre. Phone 13 1126.

First Aid Facilities: Safety shower. Eyewash facilities.

Advice to Doctor: Treat symptomatically.

Precautions For Use:

NOHSC Australia Exposure Standards:

TWA

STEL

Peak Limit: N/A

Carcinogen Limit: N/A

Protective Measures:

Engineering Controls & As appropriate to quantity handled.

Personal Protection: Respirator: Dust respirator. Ensure respirator is clean, well-fitting and in good working order. All respirators should comply with Australian Standard AS 1716 and be used in accordance with AS 1715.

Ventilation: Extraction hood.

Gloves: Rubber or plastic

Eye Protection: Goggles or face-shield

Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

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Safe Handling Information:

Storage: Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

Handling: Avoid skin and eye contact. Wash hands and face after handling the substance.

Transport:

UN Number: Not subject to transport regulations.

Dangerous Goods Class & Subsidiary Risk: None allocated.

Packaging Group: None allocated.

Other Names: Not Applicable

Spillage and Disposal:

Wear appropriate protective clothing. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with detergent and water. For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

Chemicals must be disposed of in compliance with local, state, territory and federal regulations.

Fire and Explosion:

Flammability: Combustible: May evolve toxic fumes in fire (nitrogen oxides).

Suitable Extinguishing Media: Suitable extinguishing media: CO₂, foam, powder.

Other Information:

Hazard Symbol: Xi

Risk Codes: R36
Irritating to eyes.

Safety Codes: S26
In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Phone 13 11 26.

Ecological Information: Biologic degradation: Readily biodegradable.
Behaviour in environmental compartments: Distribution: log Po/w -4.20.
No bioaccumulation is to be expected (log Po/w < 1)
Ecotoxic effects: Quantitative data on the ecological effect of this product are not available.
Further ecologic data:
No ecological problems are to be expected when the product is handled and used with due care and attention.

Key to Hazard Symbols: Xn=Harmful, Xi=Irritant, T=Toxic, T+=Very Toxic, C=Corrosive, F=Flammable, F+=Very Flammable, E=Explosive, N=Dangerous for the Environment, H=NOHSC undefined hazardous substance

Contact Point:

Operations Manager
(03) 9728 5855
Monday through Friday, 8:00am to 5:00pm (EST)

Manufacture's Advice:

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other product. If clarification of further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request