

MATERIAL SAFETY DATA SHEET



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STATEMENT OF HAZARDOUS NATURE

Not hazardous according to criteria of the National Occupational Health and Safety Commission.

COMPANY DETAILS:

Company: Bayer CropScience Pty Ltd ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123 Australia
Telephone/Facsimile: (03) 9248 6888/(03) 9248 6800
Website Address: www.bayercropscience.com.au
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

IDENTIFICATION

Product Name: **Asulox[®] Selective Herbicide**
Other Names: None
Manufacturer's Product Code: EXP04668A
SAP Product Code: 16954 (20 L)
UN Number: Not applicable
Dangerous Goods Class and Subsidiary Risk: Not classified as dangerous goods for transport by road or rail
Hazchem Code: Not applicable
Proper Shipping Name: Not applicable
Packing Group: Not applicable
EPG: Not applicable
Chemical Family: Carbamate
Poisons Schedule Number: Exempt from scheduling
Use: Agricultural herbicide

Physical Description/Properties

Appearance: Clear light brown solution with negligible odour
Boiling Point/Melting Point: Boiling point > 100^o C
Vapour Pressure: Not available
Density: 1.205 g/mL at 20^o C
Flashpoint: Not flammable
Flammability Limits: Not determined
Solubility in Water: Soluble

Other Properties:

pH: 7.0 to 8.0
Formulation: Soluble concentrate

Ingredients:

Chemical Name:	CAS Number:	Proportion (g/L):
Asulam, present as the sodium salt	[3337-71-1]	400
Other ingredients, including water	(non hazardous)	805

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HEALTH HAZARD INFORMATION

Health Effects:

Acute:

- Swallowed: Product toxicity is low but may be harmful if a large amount is swallowed.
- Eye: May irritate eyes.
- Skin: Not expected to irritate the skin. The dermal toxicity of this product is low.
- Inhaled: Low toxicity by inhalation. May irritate mucous membranes of nose and mouth.

Chronic:

Asulam was not mutagenic or teratogenic in animal studies. This product does not contain any substances that are considered to be probable or suspected human carcinogens.

First Aid

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

- Swallowed: Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice as above.
- Eye: Rinse eyes immediately with clean water for at least 15 minutes and obtain medical aid.
- Skin: Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid if at all worried.
- Inhaled: If inhaled, remove to fresh air and keep at rest. Obtain medical advice if at all worried.
- First Aid Facilities: Provide washing facilities in the workplace.

Advice to Doctor:

No symptoms of poisoning have been recorded with this product. For local contamination, treatment should be symptomatic after decontamination. In case of skin or eye contamination, treat as instructed under "First Aid". For systemic poisoning initial treatment should be symptomatic and supportive. There is no specific antidote for poisoning with asulam.

NB Asulam is not a cholinesterase inhibitor.

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PRECAUTIONS FOR USE

- Exposure Standards:** No exposure standard has been assigned by the National Occupational Health and Safety Commission for the product or its ingredients.
- Personal Protection:** To avoid eye and skin contact, wearing the following personal protective clothing and equipment is recommended:
- Eyes:** Safety goggles
 - Clothing:** Cotton overalls buttoned to the neck and wrist
 - Gloves:** PVC gloves
 - Respiratory:** Respiratory protection is not normally required. If inhalation of spray mist is likely, an AS/NZS 1715/1716 approved respirator should be worn.
 - Other:** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, goggles and contaminated clothing.
- Flammability:** Non flammable

SAFE HANDLING INFORMATION

Storage and Transport:

Corrosivity Hazards: None known

Handling & Storage Precautions: Keep out of reach of children. Avoid contact with the eyes and skin. Do not inhale spray mist. If product on skin, immediately wash area with soap and water. Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, animal feed, seed and fertilisers. Avoid extreme cold. Store away from oxidising agents.

Transport: Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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SAFE HANDLING INFORMATION - continued

Spills and Disposal:

Spillage or Leak
Procedures:

Avoid contact with the spilled material or contaminated surfaces. When dealing with spills do not eat, drink or smoke and wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section above. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

Waste Disposal
Methods:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product through a reputable waste contractor.

Fire/Explosion Hazard:

Extinguishing Media:

Product is not combustible. Use extinguishing media suitable for the surrounding fire.

Special Fire Fighting
Procedures:

Firefighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water. Dispose of fire control water or other extinguishing agent and spillage later.

Reactivity Hazards:

Stable under normal conditions of use. Toxic fumes may be given off if heated. If burnt, oxides of carbon, nitrogen and sulphur may be produced. The product may react with acids and with oxidising agents.

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OTHER INFORMATION:

Acute toxicity data (similar product): (asulam)	Oral LD ₅₀ (mg/kg)	> 5000	Species	Rat
	Dermal LD ₅₀ (mg/kg)	> 2000	Species:	Rabbit
	Inhalation LC ₅₀ (mg/L)	> 5 (4 h)	Species:	Rat
	Eye irritation	Slightly irritating	Species:	Rabbit
	Skin irritation	Non irritating	Species:	Rabbit
	Sensitisation	Non sensitising	Species:	Rat

Environmental /
Ecological Effects
(asulam):

Low toxicity to fish, birds and bees.

Fish toxicity:

LC₅₀ (96 h) for rainbow trout, channel catfish, goldfish > 5000 mg/L

LC₅₀ (96 h) for bluegill sunfish > 3000 mg/L

LC₅₀ (96 h) for harlequin fish > 1700 mg/L

Bird toxicity:

Acute oral LD₅₀ for mallard duck, pheasant and pigeon > 4000 mg/kg

Asulam has short persistence in soils.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

Special Precautions /
Comments:

None

Data Sources /
References:

Bayer CropScience Pty Ltd product safety data and published data

CONTACT POINT:

Emergency Contact Number: 1800 033 111 (Orica SH&E Shared Services)
Development Manager: (03) 9248 6888

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 products.

If clarification or 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.

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