

Material Safety Data Sheet



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: VIKING

Synonyms: Crop Care MSDS No. 42435

CAS-No.:

Molecular Formula:

Supplier: Crop Care Australasia Pty Ltd

ACN: 061 362 347

Street Address: 77 Tingira Street
Pinkenba 4008
Australia

Telephone: + 61 7 3867 9100

Facsimile: + 61 7 3867 9110

Emergency telephone number: 1 800 033 111 (ALL HOURS)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended use: Herbicide.

Appearance: Grey-brown liquid.

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ametryn	834-12-8	49.3% (500 g/L)
Water	7732-18-5	HIGH
Additives (antifoam, dispersant, etc.)	-	MED
Stabilisers	-	LOW
		100%

PROPORTION (% weight per weight):

VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS) or are National Registration Authority (NRA) approved active constituents.

3. HAZARDS IDENTIFICATION

Hazardous according to criteria of Worksafe Australia.

Hazard Category

Xn Harmful

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R-phrases(s)

R22 Harmful if swallowed.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

Poisons Schedule (Aust)/Toxic Substance (NZ): S5

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons.

Ingestion: Rinse mouth with water. Give plenty of water to drink. If more than 15 minutes from a hospital induce vomiting preferably using Ipecac Syrup APF. Seek immediate medical assistance.

Eye contact: Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Skin contact: Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Non combustible liquid.

Fire fighting further advice: Not combustible.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal. Wash area down with detergent and excess water.

LARGE SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled drums for

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disposal. Wash area down with detergent and excess water. If contamination of crops or waterways has occurred advise emergency services or State Department of Agriculture.

7. HANDLING AND STORAGE

Storage: Store in the closed, original container in a well-ventilated room as cool as possible and away from children, animals, food, feedstuffs, seed and fertilisers.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

Engineering measures: Use with local exhaust ventilation or while wearing organic vapour respirator. Keep containers closed when not in use.

Personal protection equipment: Orica Personal Protection Guide No.1, 1998: G - OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES (S), RESPIRATOR.

MANUFACTURE, PACKAGING AND TRANSPORT: Avoid skin and eye contact and the inhalation of vapour/mist. Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

PREPARATION AND USE OF PRODUCT: Avoid contact with eyes and skin. Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Grey-brown liquid.

Solubility: Soluble in water.

Specific Gravity (20 C)	: 1.015	Melting Point (C)	: N App
Rel Vapour Density (air=1)	: N Av	Boiling Point (C)	: N Av
Vapour Pressure (20 C)	: N Av	Decomp. Point (C)	: N Av
Flash Point (C)	: N Av	Sublimation Point	: N App
Flammability Limits (%)	: N Av	pH	: N Av
Autoignition Temp (C)	: N Av	Viscosity	: N Av
% Volatile by volume	: N Av	Evaporation Rate	: N Av
Solubility in water (g/L)	: N Av	(n-Butyl acetate=1)	
LogPow (Ametryn)	: 2.63		

(Typical values only - consult specification sheet)

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N Av = Not available

N App = Not applicable

10. STABILITY AND REACTIVITY

Stability: No information available.

11. TOXICOLOGICAL INFORMATION

Main symptoms: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Ingestion: Swallowing can result in nausea, vomiting and abdominal pain. (1)

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation.

Inhalation: Vapour may be irritant to mucous membranes and respiratory tract. Inhalation of mists or aerosols may produce respiratory irritation.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity

No LD50 data available for product. However for the active constituent:

AMETRYN: (1)

Oral LD50 (rat): 1110 mg/kg.

Oral LD50 (mice): 965 mg/kg.

Dermal LD50 (rabbit): >8160 mg/kg.

Inhalation LC50 (rat): >5170 mg/m³/4hr.

SKIN: Mild irritant (rabbit). (1)

EYES: Mild irritant (rabbit). (1)

ADI (Acceptable Daily Intake) for humans is 0.02 mg/kg/day. (2)

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

AMETRYN: (1)

AQUATIC TOXICITY

Toxic to aquatic organisms.

96hr LC50 (rainbow trout): 5.0 mg/L.

96hr LC50 (bluegill sunfish): 19.0 mg/L.

96hr EC50 (Daphnia magna): 25.0 mg/L.

TERRESTRIAL TOXICITY

Harmless to terrestrial species.

Oral LC50 (mallard ducks): 23,000 mg/kg. (3)

Oral LC50 (bobwhite quail): 30,000 mg/kg. (3)

Oral LD50 (bee): 0.1 mg/bee. (3)

Low toxicity to bees.

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LogPow is 2.63 (3)

Risk of bioaccumulation in an aquatic species is low.

ENVIRONMENTAL FATE, DISTRIBUTION AND PERSISTENCE

Metabolised by tolerant plants to non-toxic metabolites. Loss from the soil is principally by microbial degradation, with a half life of approximately 70-129 days. (1)

13. DISPOSAL CONSIDERATIONS

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 not available bury the containers below 500 mm in a disposal pit specifically set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

15. REGULATORY INFORMATION

Hazardous according to criteria of Worksafe Australia.

Hazard Category

Xn Harmful

R-phrases

R22 Harmful if swallowed.

S-phrases

S2 Keep out of reach of children.
S36 Wear suitable protective clothing.
S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

Poisons Schedule (Aust)/Toxic Substance (NZ): S5

16. OTHER INFORMATION

Literary reference

(1) Material Safety Data Sheet - Ametryn Technical (CDS 43554)
Orica Australia Pty Ltd. 08/95

(2) ADI List, Commonwealth Department of Health and Family Services.

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(3) In 'The Pesticide Manual. 10th Ed. Ed Tomlin C. Crop Protection Publications, 1994, p32-33.

This Material Safety Data Sheet has been prepared by SHE Pacific Pty Ltd on behalf of Orica Ltd and its subsidiary companies.

Contact Point: SHE Pacific Pty Ltd, MSDS Services

Within Australia: Telephone 1 800 624 132

Facsimile (03) 9665 7929

Outside Australia: Telephone +61 3 9665 7500

Facsimile +61 3 9665 7929

Issue Date: 12/JUN/98/JMK Supersedes Issue Date: 12/95

Reason(s) For Issue: Product name change.

Change in formulation.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

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This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Orica Limited and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.