



MATERIAL SAFETY DATA SHEET

Hazardous according to criteria of NOHSC Australia.

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

Product name: SEARLES PATH WEEDER ONCE A YEAR WEED CONTROL

Use: Kills and prevents weeds from re-growing on paths, patios, driveways, car parks or tennis courts for up to 12 months

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL	ENTITY CAS NO.	PROPORTION
Amitrol	61-82-5	5 g/L
Simazine	122-34-9	9 g/L
Ammonium thiocyanate	-	4.4 g/L
Water	7732-18-5	Balance
		<hr/> 100%

3. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of NOHSC Australia.

Hazard Category:

Xn Harmful

Risk Phrase(s):

Carc. Cat 3. R40: Possible risk of irreversible effects.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Poisons Schedule (Aust): 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

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126).

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. Seek immediate medical advice.

Skin contact: If skin contact occurs, immediately remove contaminated clothing and wash skin thoroughly. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable extinguishing media: Not combustible, however, if material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

LARGE SPILLS

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops or waterways has occurred advise emergency services or State Department of agriculture. If contamination of sewers or waterways has occurred advise local emergency services.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

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 (NOHSC Australia).

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m ³	ppm	mg/m ³		
Amitrole	-	0.2	-	-	3	-

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Carcinogen Category 3 - substances suspected of having carcinogenic potential. The available information is not adequate for making a satisfactory assessment.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These 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.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Engineering measures: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use only in well ventilated areas. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES (Short).

Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Amber liquid

Solubility:	Dispensable in water
Specific Gravity (20 °C):	1.01-1.02
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point:	N App
Flammability Limits (%):	N App
Autoignition Temperature (°C):	N App
Melting Point/Range (°C):	0 approx.
Boiling Point/Range (°C):	100 approx.
Decomposition Point (°C):	N App
% Volatile by Volume:	2 approx.
Sublimation Point (°C):	N App
pH:	N Av
Viscosity:	N Av

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Stability: No information available.

11. TOXICOLOGICAL INFORMATION

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

Acute Effects

Inhalation: Material may be irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Eye contact: May be an eye irritant.

Ingestion: Swallowing can result in nausea, vomiting, abdominal pain and irritation to the gastrointestinal tract.

Long Term Effects: No information available for product.

Long Term Effects:

No LD50 data available for the product. However, for the constituent,

Simazine:

Oral LD50 (rat, mice, rabbit):	> 5,000 mg/kg
Dermal LD50 (rat):	> 3,100 mg/kg

ADI:	0.005 mg/kg/day
NOEL:	0.5 mg/kg/day

This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 3 - Substance suspected of having carcinogenic potential.

Amitrole:

Oral LD50 (rat):	> 1,100 - 24,600 mg/kg
Dermal LD50 (rat):	> 10,000 mg/kg
ADI:	0.0003 mg/kg/day
NOEL:	0.025 mg/kg/day

This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 3 - Substance suspected of having carcinogenic potential. (Note: Overall evaluation downgraded from 2B to 3 with supporting evidence from data relevant to carcinogenicity and its mechanisms – IARC Vol. 79, 2001).

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

ENVIRONMENTAL FATE, PERSISTENCE AND DEGRADATION

The product is partially biodegradable.

Low mobility in soil.

Half-life in soil: 70-110 days

AQUATIC TOXICITY

48hr EC50 (Daphnia magna): > 100 mg/L

96hr LC50 (rainbow trout): > 100 mg/L

96hr LC50 (bluegill sunfish): 90 mg/L

96hr LC50 (guppies): 49 mg/L

96hr LC50 (crucian carp): > 100 mg/L

TERRESTRIAL TOXICITY

Oral LD50 (hens, pigeon): > 5,000 mg/kg

Dietary LD50 (mallard duck): 51,200 mg/kg

Dietary LD50 (bobwhite quail): 8,800

Contact LD50 (bee): > 99 ug/bee

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Hazardous according to criteria of NOHSC Australia.

Hazard Category:

Xn Harmful

Risk Phrase(s):

Carc. Cat 3. R40: Possible risk of irreversible effects.

Safety Phrase(s)

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Poisons Schedule (Aust): S5

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Literary reference

1. In: 'The Pesticide Manual'. 12th Edition. Ed. CDS Tomlin, British Crop Protection Society, 2000.
2. In: 'Ansell Protective Products Chemical Resistance Guide'. 6th Edition. Ansell Protective Products 1998.
3. 'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati,
4. International Agency for Research on Cancer. In: 'IARC Monographs on the Evaluation of Carcinogenic Risk to Humans'. World Health Organisation,
5. CC Info. Disc. Canadian Centre for Occupational Health and Safety, Ontario,

Reason(s) For Issue: Overall Review

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

CONTACT POINTS:

ORGANIZATION	LOCATION	TELEPHONE	ASK FOR
J.C. & A.T. Searle Pty Ltd	Kilcoy	(07) 5497 2022	Technical Officer
Poisons Information Centre	Brisbane QLD	13 11 26	

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