

Material Safety Data Sheet

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Infosafe No. 3NU3J Issue Date : January 2005 ISSUED by CRPCARE

Product Name : **Simazine Flowable Herbicide**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name Simazine Flowable Herbicide
Product Code 0728
Product Use For the control of weeds in orchards, chickpeas, vineyards, asparagus, field lupins, berry fruits, gladioli, hops, faba beans, almonds (SA only), TT-canola, non-agricultural situations and other crops, in certain states as per the Directions for Use table.
Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
Address 77 Tingira Street Pinkenba
Queensland 4008 Australia
Emergency Tel. 1800 033 498
Telephone/Telex Number Tel: (07) 3867 9100 Fax: (07) 3867 9110
Product Type Group C Herbicide
Other Information This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Simazine	122-34-9	500 g/L
	Water		30-60 %
	Ethylene glycol	107-21-1	51.6 g/L
	Stabilisers and surfactants		<10%

3. HAZARDS IDENTIFICATION

Possible risk of irreversible effects.

Other Information Poisons Schedule 5

4. FIRST AID MEASURES

Inhalation Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.

Ingestion If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Skin Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

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Specific Hazards Considered low risk due to water content, however upon evaporation of water the product is combustible.

Hazardous Combustion Products If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and hydrogen chloride.

Emergency Action in case of Fire If exposed to fire, keep container cool by spraying with water.

Protective Equipment Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Other Information Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).
Collect spilled material and waste in sealable open-top type containers for disposal.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Clean-up Methods - Large Spillages If large liquid spills occur, attempt to recover as much spilt material from sumps and banded areas before absorbing remaining material into vermiculite or other absorbent.

7. HANDLING AND STORAGE

Storage Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Ethylene glycol	120		60		

Personal Protective Equipment It is good practice to wear suitable personal protective equipment (PPE).
When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.

Eng. Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Hygiene Measures After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
After each day's use, wash contaminated clothing and safety equipment.

Requirements Concerning Special Training NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005 all users must have received such training.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Beige liquid

Odour Sweetish odour

Melting Point N/A

Solubility in Water Disperses in water.

Boiling Point ~100°C (water)

Specific Gravity (H2O=1) 1.145 - 1.155

Vapour Pressure 2.94 x 10⁻³ mPa @ 25°C (for simazine)

Volatile Component ~50% (water)

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Partition co-efficient, Kow Log P is 2.1
n-octanol/water

Flammability Non combustible material.

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous Hazardous polymerisation is not possible.

Polymerization

Hazardous Reaction Keep away from strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Inhalation The components of the product are of low volatility and no adverse effects are expected from handling the concentrate.

When applying the product as a spray avoid breathing in spray mists.
May cause irritation to the respiratory tract.

Ingestion The concentrate is of low toxicity if swallowed.

Possible symptoms of exposure include: nausea and vomiting.

Skin May irritate the skin.

Simazine is not a skin irritant in animal studies, however very rare cases of skin irritation in humans have been reported.

Eye The concentrate may cause irritation of the eyes.

Chronic Effects Other than an occasional transient skin eruption in a few rare cases, no chronic effects have been documented. There is a warning that regular exposure to simazine may result in irreversable effects. (See toxicity data.)

Mutagenicity The weight of evidence indicates that simazine does not present a mutagenic risk.

Carcinogenicity Worksafe Australia has classified simazine in the occupational environment as a Carcinogen Category 3 substance. This means the the substance is not classifiable as to carcinogenicity to humans.

Acute Toxicity - Oral LD50 (rat, mouse, rabbit) >5000 mg/kg for simazine technical

Acute Toxicity - Dermal LD50 (rat) >2000 mg/kg for simazine technical

Acute Toxicity - Inhalation LC50 (rat) (4hr) >5.5 mg/l for simazine technical

Eye Irritation Not an eye irritant.

Skin Irritation Not a skin irritant.

Human Effects Prolonged and repeated exposure can occasionally cause skin irritation, conjunctivitis and bronchitis.

Other Information The Australian Acceptable Daily Intake (ADI) for simazine for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.05 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, August 2003).

12. ECOLOGICAL INFORMATION

Persistence / Degradability Average field half life of simazine is 49 days.
(Range 27 - 102 days)

Acute Toxicity - Fish The following is data for the active ingredient, simazine technical.
Not toxic to fish. LC50 (96 hr) for rainbow trout is >100 mg/l.
LC50 (96 hr) for bluegill sunfish is 90 mg/l.

Acute Toxicity - Daphnia LC50 (48 hr) for daphnia is >100 mg/l for simazine technical.

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Acute Toxicity - Other The following data is for the active ingredient, simazine technical.

Organisms Birds: Not toxic to birds. LD50 for mallard ducks is >2000 mg/kg

Bees: Not toxic to bees. LD50 >99 µg/bee.

13. DISPOSAL CONSIDERATIONS

Product Disposal On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemCollect).

Container Disposal Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush and bury in an approved landfill or bury with at least 500 mm of soil cover away from pasture and crop areas, water supplies and houses.

Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

U.N. Number None Allocated

Proper Shipping Name None Allocated

DG Class None Allocated

Hazchem Code None Allocated

Packing Group None Allocated

Storage and Transport Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Risk Phrase R40(3) Possible risk of irreversible effects.

Safety Phrase S13 Keep away from food, drink and animal feeding stuffs.

S2 Keep out of reach of children.

S36/37 Wear suitable protective clothing and gloves.

Poisons Schedule S5

Hazard Category Harmful

Packaging & Labelling CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AICS (Australia) All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

After Hours: Shift Supervisor Phone: 1800 033 498

Revisions Highlighted The MSDS was reviewed. Minor changes were made to the information.

Appearance changed from white to beige.

...End Of MSDS...