

# Material Safety Data Sheet

CS: 1.4.21

Page: 1 of 5

Infosafe No™ 3NU6R Issue Date :August 2009 ISSUED by CRPCARE CS: 1.4.21

Product Name **ATRAGRANZ Herbicide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** ATRAGRANZ Herbicide  
**Product Code** 0665  
**Product Type** Group C Herbicide  
**Company Name** Crop Care Australasia Pty Ltd (ABN 53 061 362 347)  
**Address** Unit 15/16 Metroplex Avenue Murarrie  
Queensland 4172 Australia  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 7 3909 2000  
Fax: +61 7 3909 2010  
**Recommended Use** For selective annual grass and broadleaf weed control as per the Directions for Use table on the label.  
**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. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.

**Risk Phrase(s)** Classified as hazardous  
R43 May cause sensitization by skin contact.  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

**Safety Phrase(s)** S13 Keep away from food, drink and animal feeding stuffs.  
S2 Keep out of reach of children.  
S24 Avoid contact with skin.  
S36/37 Wear suitable protective clothing and gloves.  
S46 If swallowed, seek medical advice immediately and show this container or label.

**Other Information** Poisons Schedule S5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Solid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Atrazine	1912-24-9	900 g/kg
	Talc	14807-96-6	18 g/kg
	Dispersants		<10%

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If symptoms develop or persist, 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.  
Seek medical advice if irritation develops or persists.

**Advice to Doctor** Treat symptomatically.

# Material Safety Data Sheet

CS: 1.4.21

Page: 2 of 5

Infosafe No™ 3NU6R Issue Date :August 2009 ISSUED by CRPCARE CS: 1.4.21

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## 5. FIRE FIGHTING MEASURES

**Suitable** Water fog, foam, carbon dioxide or dry chemical.

**Extinguishing Media** Avoid strong water jets - airborne dusts may form a flammable dust cloud.

**Hazards from Combustion** If involved in a fire, it will emit cyanides, hydrogen chloride and possibly carbon oxides.

**Products** Combustible solid.

**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn in confined spaces.

**Other Information** STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal.

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

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.

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

**Other Information** Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** NOHSC has set the following exposure standard for atrazine : TLV (TWA) 5 mg/m<sup>3</sup>, STEL -.  
NOHSC has set the following exposure standard for talc : TLV (TWA) 2.5 mg/m<sup>3</sup>, STEL -.

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

**Respiratory Protection** If dusts are present, wear a class P1 dust mask.

**Personal Protective Equipment** When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.  
Re-entry period: Do not enter treated area until spray has dried.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Solid

**Appearance** White granule

**Odour** Odourless

**Melting Point** 169 - 176°C for atrazine

**Solubility in Water** Disperses in water.

**Specific Gravity** Bulk Density 0.90

# Material Safety Data Sheet

CS: 1.4.21

Page: 3 of 5

Infosafe No™ 3NU6R	Issue Date :August 2009	ISSUED by CRPCARE	CS: 1.4.21
--------------------	-------------------------	-------------------	------------

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**Vapour Pressure** 3.85 x 10<sup>-2</sup> mPa @ 25°C for atrazine**Volatile Component** <1%**Octanol/Water Partition Coefficient** Kow Log P is 2.5 for atrazine**Flammability** Combustible

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.**Hazardous Reactions** Keep away from strong oxidising agents, may react violently.**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** No harmful effects are expected if the precautions on the label and this MSDS are followed.**Inhalation** Respiratory protection while spraying is recommended. Some temporary irritation may be experienced.**Ingestion** Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.**Skin** May irritate the skin. May cause sensitisation by prolonged skin contact.**Eye** May irritate the eyes.**Reproductive Toxicity** Data indicates no reproductive effects.**Toxicity** Data indicates no teratogenic effects.**Mutagenicity** Data indicates no mutagenic effects.**Carcinogenicity** Atrazine technical has been extensively tested on laboratory mammals and in test-tube systems. After long-term administration (close to two years of continuous feeding) a slight increase in the incidence of mammary tumours was reported in one species (rat), one sex (female) and one strain (Sprague-Dawley) in one study at higher doses. A more recent study (1992) using Sprague-Dawley rats showed no significant difference between rats fed normal diet and those fed on a diet containing atrazine with regard to the incidence of tumours. Recent studies with the Fischer rat strain have shown no evidence of tumour producing potential. The relevance of the mammary tumour finding to humans is doubted as epidemiological studies of workers involved in the production of atrazine for up to 30 years have shown no evidence of health problems associated with atrazine exposure. Atrazine has been listed by IARC as a Class 3, not classifiable as to carcinogenicity to humans.**Acute Toxicity - Oral** LD50 (rat) 1869 - 3090 mg/kg for atrazine

LD50 (mice) 1332 - 3992 mg/kg for atrazine

**Acute Toxicity - Dermal** LD50 (rat) >3100 mg/kg for atrazine**Acute Toxicity - Inhalation** LC50 (rat) (4hr) >5.8 mg/l for atrazine**Eye Irritation** Not an eye irritant.**Skin Irritation** Mild skin irritant.**Skin Sensitisation** Prolonged and repeated skin contact may result in skin sensitisation.**Other Information** The Australian Acceptable Daily Intake (ADI) for atrazine for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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 Office of Chemical Safety, 'ADI List', December 2008).

## 12. ECOLOGICAL INFORMATION

**Persistence / Degradability** Average field half life of atrazine is 35 - 50 days. This may be longer under cold or dry conditions.

# Material Safety Data Sheet

CS: 1.4.21

Page: 4 of 5

Infosafe No™ 3NU6R	Issue Date :August 2009	ISSUED by CRPCARE	CS: 1.4.21
--------------------	-------------------------	-------------------	------------

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**Other Precautions** Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

**Environ. Protection** Marine pollutant.  
Spray drift should be avoided, read the label for more information.

**Acute Toxicity - Fish** The following is data for the active ingredient, atrazine.  
LC50 (96hr) for rainbow trout is 4.5 - 11.0 mg/l.  
LC50 (96hr) for bluegill sunfish is 16 mg/l.  
LC50 (96hr) for carp is 76 mg/l.

**Acute Toxicity - Daphnia** LC50 (48hr) for 6.9 is daphnia mg/l for atrazine.

**Acute Toxicity - Algae** EC50 (72hr) for Scenedesmus subspicatus 0.043 mg/l.

**Acute Toxicity - Other Organisms** The following data is for the active ingredient, atrazine.  
Birds: Not toxic to birds. LD50 for mallard ducks is >2000 mg/kg  
LD50 for bobwhite quail is 940 mg/kg  
Bees: Not toxic to bees. LD50 >97 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 (ChemClear®).

**Container Disposal** Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill.  
If no landfill is available, bury the containers below 500mm 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.

### 14. TRANSPORT INFORMATION

**Transport Information Storage and Transport** It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.  
Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
Exempt from classification as a Dangerous Good in packs less than 3,000 kg or L as per ADG7, SP no. AU01.  
For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.

**UN Number (Sea Transport)** 3077

**IMO Class/Packing Group** Class 9

**IMO Marine Pollutant** Marine Pollutant

**IMO Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains Atrazine)

### 15. REGULATORY INFORMATION

**Poisons Schedule** S5

**Packaging & Labelling** CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Hazard Category** Harmful, Irritant

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

### 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** Revised 18/08/2009

**Contact Person/Point** Normal Hours: Mr Volker Maier Phone: (03) 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498

# Material Safety Data Sheet

CS: 1.4.21

Page: 5 of 5

Infosafe No™ 3NU6R      Issue Date :August 2009      ISSUED by CRPCARE      CS: 1.4.21

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**Revisions**                      The MSDS was reviewed. Changes made to sections:  
**Highlighted**                    8 - Re-entry period information,  
   12 - Spray drift warning.  
   ...End Of MSDS...

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