

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Novartis Crop Protection Australasia Pty Limited
A.C.N. 002 933 717
140-150 Bungaree Rd.,
PENDLE HILL, NSW, 2145

Telephone No.: (02) 9688 0444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: GESAPRIM Granules 900 WG Herbicide

Formulation type:	water dispersible granules	Dangerous Goods Class/ and Subsidiary Risk (ADG):	none allocated
Active Ingredient:	atrazine	Hazchem Code:	none allocated
Chemical type:	triazine	Packing Group:	none allocated
Product Code No.:	FHD 813	Poisons Schedule:	5
UN Number:	none allocated		

USE: Herbicide for the control of annual weeds in sorghum, maize, sweetcorn, saccaline, broom millet, sugarcane and non-crop situations. Refer to the product label for full use instructions.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Off-white granules	Flash point:	Not available
Odour:	Non-specific	Flammability:	Non-flammable
Vapour pressure:	0.04 mPa (20°C)	Behaviour in water:	Suspensible
Specific gravity:			

OTHER PROPERTIES

Explosive properties:	Non-explosive	Oxidising properties:	Non-oxidising
Ignition temperature:	Non-flammable	Corrosiveness:	Non-corrosive
Thermal sensitivity:	Stable from 0-50 °C	Combustibility:	Non-combustible
Self-heating properties:	not self-heating	Volatility:	Non-volatile
Bulk density:	0.45 g/cm ³		
Particle size:	0.2-2.0 mm		

INGREDIENTS

	CAS No.	Content (%w/v)
atrazine (technical grade)		>90
to give atrazine	1912-24-9	90
other ingredients determined not to be hazardous		to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Toxicity - This product is slightly hazardous (WHO Hazard Class III)

Swallowed: **LOW TOXICITY**
Tests on rats indicate a low toxicity following single doses of a similar, undiluted product.
(LD₅₀ >2200 mg/kg)

Dermal absorption: **LOW TOXICITY**
Tests on rats using **atrazine technical** indicate a low toxicity due to skin contact with undiluted product.
(LD₅₀ >3100 mg/kg, for active ingredient)

Inhaled: **LOW TOXICITY**
Tests on rats with a comparable 900 WG formulation indicate a low toxicity due to inhalation of undiluted product.
(LC₅₀ (4h), active ingredient >710 mg/m³, no toxic concentration attainable)

Irritation - (based on studies with rabbits using the main ingredients)

Eye: **SLIGHT IRRITANT**
Skin: **SLIGHT IRRITANT**

Sensitisation - (based on results of a comparable 900 WG formulation on guinea pigs).

Skin: **NOT A SENSITISER**

Poisoning symptoms:

No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific.

CHRONIC (Active Ingredient)

Atrazine technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. After long-term administration (ie, close to 2 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.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre.

Swallowed: If poisoning occurs contact a doctor or Poisons Information Centre
Eye: Flush with large quantities of clean tap water for at least 15 minutes.
Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled: Move affected person to fresh air and keep at rest until recovered.

ADVICE TO DOCTOR

No specific antidote exists. Treat symptomatically.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

Ingredient: **Occupational Exposure Standard (NOHSC)**
atrazine 5 mg/m³ of air (8 h time weighted average)

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

Re-entry Period - Do not enter treated areas without protective clothing until the spray has dried.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

Avoid contact with eyes and skin. Do not inhale dust. When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) a washable hat, elbow-length PVC gloves and face shield or goggles. Wear a half-face respirator if the level of **atrazine** in the air is likely to exceed the occupational exposure standard. If product gets in eyes, wash it out immediately with water. 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, face shield or goggles and contaminated clothing. Use only protective clothing bearing the mark of the Standards Association of Australia.

FLAMMABILITY

This product is NON-FLAMMABLE and non-combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in the closed, original container in a dry, cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Keep out of reach of children, unauthorised persons and animals.

SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways

Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) **For a product spill:** Sweep granule concentrate into a pile.
For a prepared spray spill: Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed material or granule concentrate into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50 kg of product bury in a secure landfill site.
 - For quantities greater than 50 kg seek advice (use emergency contact number below) from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with water.

Dispose of empty, used containers by:

- (a) Shake empty bag into spray tank.
- (b) DO NOT dispose of undiluted chemicals on site.
- (c) Puncture or shred 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.

FIRE/EXPLOSION HAZARD

This product is non-flammable, non-explosive and non-combustible. Extinguish warehouse and factory fires using fine-water spray or foam. Do not allow fire-water to enter drains.

OTHER INFORMATION

Atrazine technical is slightly toxic fish [LC₅₀ (96 h), rainbow trout = 4.5 - 8.8 mg/L], and practically non-toxic to birds and bees.

Note: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 9688 0444 24 HOURS EMERGENCY CONTACT: 1 800 033 111

This Material Safety Data Sheet 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.

® Registered Trade Mark of Novartis AG, Basel, Switzerland.