

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS: Syngenta Crop Protection Limited Tower II, Level 7, 110 Symonds Street Private Bag 92618, Symonds Street AUCKLAND NEW ZEALAND	Telephone No.: (weekdays) 09 - 306 1500 National Poisons & Hazchem Information Centre : 0800 POISON (0800 764 766) Emergency No. (24 Hours) 0800 734 607
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IDENTIFICATION

PRODUCT NAME: FUSILADE 0 WG

Formulation type: Water dispersible granule	Dangerous Goods Class/ subsidiary risk: 9
Active Ingredients: fluazifop-P butyl	Hazchem Code: 2X
Product Code No.:	Packaging Group: III
Chemical types: carboxylic acid derivative	Toxic Substances Schedule: None allocated
UN Number: 3077	Marine Pollutant: Yes

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
(CONTAINS FLUAZIFOP-P BUTYL 25%) MARINE POLLUTANT

USE: Herbicide for the control annual and perennial grasses in a wide range of broad leaf crops, orchards, forestry and ornamentals.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance: Mid brown granules	Flash point: Not available
Odour: Mild solvent odour	Flammability: Not available
	Behaviour in water: Dispersible

OTHER PROPERTIES

Bulk Density: 0.79g/mL	pH : Not available
Surface tension: Not available	Boiling point: Not available
Explosive properties: Not available	Auto-ignition temp.: Not available
Corrosiveness: Not available	Combustibility: Non -combustible
Reactivity: Not available	Viscosity: Not applicable

INGREDIENTS -

	CAS No.	Content (%w/w)
Fluazifop-P butyl (technical grade)	79241-46-6	
to give Fluazifop-P butyl		24
Emulsifiers		<9
Dispersants		<9
Inert fillers		to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS No LD 50 data available for product. DATA is for active ingredient

ACUTE

Toxicity

- This product is unlikely to present a toxicity hazard during normal use

Swallowed: Tests on rat
(LD₅₀ 2451-3680 mg/kg)

Dermal absorption: Tests on rabbit
(LD₅₀ >2076 mg/kg)

Inhaled: >5.24mg/L/4 hours

Irritation

Eye: Mild Irritant (rabbit)
Skin: MILD Irritant (rabbit)

Sensitisation

Skin: NOT a sensitiser

Poisoning symptoms:

Swallowed : Swallowing large amounts may result in nausea ,vomiting and abdominal pain.
Eye : May be an eye irritant.
Skin: Contact with skin may cause irritation.
Inhaled: May cause respiratory irritation as a dust .

CHRONIC

Chronic ingestion studies in animals show that repeated doses produce adverse effects on the liver and kidney. Repeated doses produce embryo/foetotoxic effects in the absence of the maternal toxicity. The no effect level was 1mg/kg /day in the rat.

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. If swallowed DO NOT induce vomiting. Rinse mouth with water. Give water to drink. Begin artificial respiration if victim is not breathing. Use mouth to nose rather than mouth to mouth.
Eye: Flush with large quantities of clean tap water for at least 15 minutes. Seek medical advice.
Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water. If irritation occurs seek medical advice.
Inhaled: Move affected person to fresh air and remove contaminated clothing. Seek medical advice if effects persist.

ADVICE TO DOCTOR

Treat symptomatically

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

No exposure standards have been set for the components of this product. However the supplier recommends a time weighted average of 0.5mg/m³. All atmospheric contamination should be kept to as low as is workable

ENGINEERING CONTROLS

Ensure adequate ventilation. Keep container closed when not in use. Avoid generating and inhaling dusts.

PERSONAL PROTECTION

Will irritate the eyes and skin. Avoid contact with eyes and skin.

When opening the container and preparing the dilute solution wear

- cotton overalls buttoned to the neck and wrist (or equivalent clothing),
- elbow-length PVC gloves and
- face shield or goggles.
- if inhalation risk wear dust mask

When using the prepared solution wear

- cotton overalls buttoned to the neck and wrist (or equivalent clothing) and
- elbow-length PVC gloves.
- Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing
- if inhalation risk wear organic vapour /particulate respirator.

FLAMMABILITY

Non combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of 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 goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) Dam and cover spill with damp absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums. Avoid generating dust
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50L of product bury in a secure landfill site.
 - For quantities greater than 50L 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
- (8) Prevent runoff from entering drains and waterways

Dispose of empty, used containers by:

- (a) Shake empty container into spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) Break, crush or puncture 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.
- (d) Burning of empty containers if circumstances, especially wind direction, permit is an alternative method.

FIRE/EXPLOSION HAZARD

This product is a combustible solid. May form a flammable dust cloud in the air. Extinguish warehouse and factory fires using water fog (or if unavailable fine water spray) ,foam, dry agent (carbon dioxide, dry chemical powder). During a fire this product will release smoke and toxic products. When fighting a fire wear an air-supplied respirator. Do not allow runoff or product to enter drains.

OTHER INFORMATION

Fluazifop-P-butyl is toxic to aquatic organisms. Low toxicity to 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 Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT:	Business Manager - Crop Protection:	(09) 306 1500
	24 HOURS EMERGENCY CONTACT:	0800 734 607

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.

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