

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
Level 1, 2-4 Lyon Park Road
NORTH RYDE, NSW 2113

Telephone No.: (02) 8876 8444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: PEGASUS[®] MITICIDE

Formulation Type:	Suspension concentrate	Dangerous Goods Class/ and Subsidiary Risk (ADG):	None allocated
Active Ingredient:	Diafenthiuron	Hazchem Code:	None allocated
Product Code No.:	A-7630B	Packing Group:	None allocated
Chemical Type:	Thiourea	Poisons Schedule:	5
UN Number:	None allocated		

USE: Miticide for control of Two-spotted Mite in cotton

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Light grey fluid paste	Flash Point:	>100°C
Odour:	Non specific	Flammability:	Non-flammable
Vapour pressure:	Not available	Combustibility:	Non-combustible
Specific gravity:	1.050 g/cm ³ (at 20°C)	Behaviour in water:	Dispersible

OTHER PROPERTIES

pH:	7.0 - 7.5	Corrosiveness:	Non-corrosive
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INGREDIENTS:

	CAS No.	Content (% w/v)
Diafenthiuron (technical grade) to give Diafenthiuron	80060-09-9	≥ 50
Glycerine	56-81-5	50
Other ingredients determined not to be hazardous		<10 to 100

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Toxicity - This product is moderately hazardous (WHO Hazard Class II)

Swallowed: **LOW TOXICITY**
Tests indicate low toxicity following single doses of the undiluted product.
(LD₅₀ = 1950 mg/kg)

Dermal absorption: **LOW TOXICITY**
Tests indicate a low toxicity due to skin contact of the undiluted product.
(LD₅₀ = >4000 mg/kg)

Inhaled: **LOW TOXICITY**
Generation of a respirable aerosol was not possible in laboratory tests. Therefore inhalation is not a likely route of exposure to this product. The product can be considered to have low toxicity by inhalation.

Irritation

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

Sensitisation

Skin: **NOT A SENSITISER**

CHRONIC (Active Ingredient)

Diafenthiuron technical has been extensively tested on laboratory mammals and in test tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. Diafenthiuron induced increased lung weight correlated with increased incidences of pulmonary alveolar foam cells as the primary lesion in rats fed higher dose levels. The 18 months mice feeding study at high dose levels indicates that proliferate lesions (focal hyperplasia, adenoma, carcinoma) occurred. It is concluded that the lesions are related to excessive toxicity and do not reflect any intrinsic oncogenic potential of the compound. This finding is not considered to be of relevance for humans. In the 1-year dog study the main finding was edema of the pancreas at the high dose level. This effect was completely reversible with the one month recovery period.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.

Swallowed: If swallowed, contact medical care immediately.
Eye: If product gets in eyes, flush eyes with running water for at least 15 minutes.
Skin: If skin contact occurs, remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated clothing before re-use.
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**

Glycerine mist

Occupational Exposure Limit

10 mg/m³ (NOHSC – time weighted average).

No official exposure standards have been set for the other ingredients in this product.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Skin uptake of diafenthiuron can occur. Inhalation of the spray mist is a possible route of exposure. This product is mixed with water prior to use as a spray. This diluted form is less toxic by all exposure routes.

Re-entry Period - DO NOT allow entry into treated areas for 24 hours after treatment. When prior entry is necessary, limit duration of entry and wear cotton overalls buttoned to the neck and wrists, and elbow-length PVC gloves. Clothing must be washed after each day's use.

Cotton chippers: DO NOT allow entry into treated areas for 24 hours after treatment. When entering treated areas between 24-72 hours after treatment, wear cotton overalls buttoned to the neck and wrists (or equivalent clothing) and gloves. Clothing must be washed after each day's use.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

Manual flagging is not permitted during aerial spraying of PEGASUS.

PERSONAL PROTECTION

Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist.

When opening the container, preparing the spray and using the prepared spray wear:

- cotton overalls buttoned to the neck and wrist ,
- a washable hat, and
- elbow length PVC gloves.

Wash hands after use. After each day's use, wash gloves and contaminated clothing.

Only use protective equipment 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 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.

Transport Classification – Sea (IMDG):

UN No.:	3082	Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIAFENTHIURON)
Class:	9	Additional Information:	DIAFENTHIURON 50%, MARINE POLLUTANT
Packing Group:	III		

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 absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Dispose 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 from the manufacturer (use emergency contact number below) 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 the smallest volume of water practicable.

Dispose of empty, used containers by:

- (a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) If not recycling, 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. Empty containers and product should not be burnt.

FIRE/EXPLOSION HAZARD

This product is non-flammable. Extinguish warehouse and factory fires using fine-water spray or foam. When fighting a major fire wear a respirator. Do not allow fire-water to enter drains.

OTHER INFORMATION

The active ingredient diafenthiuron is highly toxic to crustaceans and fish and toxic to bees. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

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) 8876 8444
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.