

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC Australia

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
140-150 Bungaree Rd.,
PENDLE HILL, NSW, 2145

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

IDENTIFICATION

PRODUCT NAME: Imperator Smoke Generator

Formulation type:	powder	UN number:	3077
Active ingredient:	Permethrin 40:60	Dangerous goods class:	9
Product code:		Subsidiary risk:	-
Chemical type:	Pyrethroid	Hazchem code:	2X
Poisons schedule:	5	Packing group:	III
		EPG/IERG:	9C1

USE: Insecticide for the control of ants, flies, fleas, American and German cockroaches, weevils, spiders caterpillars and aphids.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Off-white powder	Flash Point:	not applicable
Odour:	permethrin odour	Flammability limits:	not available
Melting point:	not available	Combustibility:	combustible
Vapour pressure:	not applicable	Solubility in water:	practically insoluble
Specific gravity:	not available	Auto-ignition temperature:	> 130°C

INGREDIENTS

	CAS No.	Content (%w/w)
Potassium perchlorate	3811-04-9	12.7
Permethrin	52645-53-1	13.5
Other ingredients determined not to be hazardous	-	> 60

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE TOXICITY

This product is HARMFUL according to NOHSC Australia. No LD₅₀ data is available for the product.

Swallowed: **HARMFUL**
Tests on rats indicate this product is HARMFUL following a single dose of the active ingredient.
Permethrin: LD₅₀ = 806 mg/kg, Potassium chlorate: LD₅₀ = 1870 mg/kg

Dermal absorption: **NOT HARMFUL**
Tests on rabbits indicate this product is NOT HARMFUL following skin contact with the active ingredient.
(LD₅₀ > 2000 mg/kg)

Inhaled: **HARMFUL**
Tests on rats indicate this product is HARMFUL due to inhalation of active ingredient.
(LC₅₀ = 2.3 mg/L/4 hours)

Irritation

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

Sensitisation

Skin: **A MODERATE SKIN SENSITISER**

Poisoning symptoms:

Symptoms that may arise if the product is mishandled and overexposure occurs are nausea, vomiting, diarrhoea, and in severe cases central nervous system depression, leading to tremors, convulsions and coma. If the victim is uncoordinated there is a greater likelihood of vomit entering the lungs and causing subsequent complications. May cause eye irritation due to particulate nature of the product. Contact with the skin may result in irritation. A skin sensitiser. May cause tingling, burning, itching or numbness in exposed areas which can last up to 36 hours. Repeated or prolonged skin contact may lead to allergic contact dermatitis. Inhalation of dust may result in respiratory irritation. The vapour/smoke generated during use is irritant to mucous membranes and respiratory tract and may result in the symptoms described above.

CHRONIC TOXICITY (Active Ingredient)

Permethrin technical has been extensively tested in mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, neurotoxic or teratogenic effects was obtained. Potassium chlorate was tested positive in one short-term, in vitro mutagenicity study in bacteria. The fatal dose of potassium chlorate to adults is approximately 15 g and for children approximately 2 g.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 13 11 26.

- Swallowed: Rinse mouth with water and give water to drink. If more than 15 minutes from a hospital induce vomiting preferably using Ipecac syrup APF. Seek immediate medical assistance.
- Eye: If product gets in eyes wash it out immediately with copious quantities of water for 15 minutes. Eyelids to be held open. Seek medical advice.
- Skin: If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated clothing before re-use. If swelling, redness, blistering or irritation occurs, seek medical advice.
- Inhaled: Move person to fresh air and keep at rest until recovered. Remove any contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. If breathing laboured and patient cyanotic (blue) ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped, apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. Seek immediate medical attention.

ADVICE TO DOCTOR

No specific antidote exists. Treat symptomatically.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

No value assigned for this specific material by NOHSC, however, supplier recommended hygiene standard -

	TWA	
	ppm	mg/m ³
Permethrin	---	10

TWA = The time weighted average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation is a possible route of exposure.

Re-entry Period - Do not enter treated areas for at least 3 hours. Thoroughly ventilate area before re-entering.

ENGINEERING CONTROLS

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Hygiene Standard. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

PERSONAL PROTECTION

MANUFACTURE, PACKAGING AND TRANSPORT: Avoid skin and eye contact and the inhalation of vapour/mist. Wear overalls, safety glasses and impervious gloves. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Wash contaminated clothing and other protective equipment before storage or re-use. Always wash hands before smoking, eating, drinking or using the toilet.
PREPARATION AND USE OF PRODUCT: Do not inhale vapour. Leave immediately after lighting smoke generators. Thoroughly ventilate treated areas before re-occupying..

FLAMMABILITY

This product is combustible.

