

SAFETY DATA SHEET

SILO[®]SMOKE

Date of Issue: 8 March 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	Permethrin (25:75) 135 g/kg 127 g/kg.	and potassium chlorate
Recommended use:	Smoke generator insecticide)
Supplier:	UPL New Zealand Limited PO Box 51584, Pakuranga	
	Auckland	
	Phone 0800 100 325	
Emergency telephone number:	0800 CHEM CALL (0800 243	622) 24 Hours
2. HAZARDS IDENTIFICATION		
Hazard Classification:	6.1D, 6.3B, 6.4A, 6.5A, 6.9B,	9.1A, 9.3C, 9.4A
Required identification Details:		nhaled or absorbed through the skin
	May cause eye and mild skin i	
	May cause respiratory sensitis	ation. toms from oral exposure at high
	doses.	ionis nom oral exposure at high
	Very toxic to aquatic organism	S.
	Harmful to terrestrial vertebrat	
	Very toxic to terrestrial inverte	brates.
3. COMPOSITION/INFORMATION ON INGR	EDIENTS	
Substance/preparation Information on hazardo	us ingradiants	
Common name	CAS No	%
Potassium perchlorate	3811-04-9	12.7
Permethrin	52645-53-1	13.5
Other ingredients	(non-hazardous)	balance

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms <u>First-aid measures</u>	
Inhalation:	Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.
Ingestion:	If swallowed rinse mouth with water and give water to drink. Immediately contact a doctor or the National Poisons Centre (0800 764 766)
Skin contact:	If skin contact occurs, remove contaminated clothing and

Eye contact: Workplace facilities:	wash with soap and water. If irritation occurs seek medical attention In case of contact, immediately flush eyes with copious quantities of water for at least 15 minutes. Seek medical advice. Ensure washing facilities are available
5. FIRE-FIGHTING MEASURES	
Extinguishing media: Hazardous thermal	Water fog, foam or dry agent.
(de)composition products:	During a fire this product may release smoke, hazardous decomposition product sand toxic fumes.
Protection of fire-fighters:	Wear self-contained breathing apparatus and structural fire fighter's uniform
6. ACCIDENTAL RELEASE MEASURES	5
Personal precautions:	Wear suitable protective clothing and boots.
Environmental precautions:	Prevent spill from entering drains, sewers or any body of water.
Methods for cleaning up:	Contain and absorb with sand, earth or inert absorbent. Scoop or shovel into sealable containers for disposal in accordance with local and national regulations. Decontaminate area with soap and water. Rinse.
7. HANDLING AND STORAGE	
Handling: Storage:	Avoid contact with skin and eyes. Avoid breathing vapour/mist. Use with adequate ventilation. Store in a cool dry well-ventilated area out of direct sunlight. Store in a locked room away from children, unauthorised persons,
Packaging materials:	animals, food, feedstuffs, seed and fertilisers.
8. EXPOSURE CONTROLS/PERSONAL	PROTECTION
Workplace Exposure Guidelines	
Exposure Standards:	No occupational exposure standards have been established for the product or the other ingredients excluding permethrin. Permethrin \rightarrow 10 mg/m3 TWA for an 8 hour day/5 day working week
Engineering measures	
Exposure control measures:	Ensure adequate ventilation. Use local exhaust ventilation or use while wearing a dust mask to avoid breathing vapour.
Personal Protective Equipment Detail specifications for equipment:	
Respiratory system:	If inhalation risk, use an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Skin and body:	
Hands:	Impervious gloves
Eyes: Concret bygione:	Safety glasses
General hygiene:	Leave immediately after lighting smoke generators. Thoroughly ventilate treated areas before re-occupying.

To be used strictly in accordance with label instructions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour.	Off-white powder. Permethrin odour
pH:	Not available.
Vapour Pressure:	Not available.
Boiling Point:	Not available.
Flash Point:	67°C
Freezing/melting point:	Not available.
Solubility:	Practically insoluble.
Density:	Not applicable.
Information for flammable material: Viscosity:	Not available.
Octanol/water partition coefficient: Auto – ignition Temperature:	Not available. >130°C

10. STABILITY AND REACTIVITY

Stability: Conditions to avoid: Materials to avoid: Hazardous Decomposition Products: Hazardous polymerization: Hazardous reactions:	Stable None anticipated. None known During a fire this product may release smoke, hazardous decomposition products and toxic fumes. None. Chloride compounds and nitrogen oxides
11. TOXICOLOGICAL INFORMATION	
Acute toxicity – Oral: Acute toxicity - Dermal: Acute toxicity – Inhalation:	6.1D, may be harmful if swallowed Of dust: May result in respiratory irritation Of Smoke/vapour: Irritant to mucous membranes and respiratory tract.
Skin irritation: Eye irritation:	May cause skin irritation. May cause eye irritation.
Chronic	Prolonged or repeated skin contact may lead to allergic dermatitis. Over-exposure may result in nausea, vomiting, diarrhea and in severe cases, central nervous system depression, leading to tremours, convulsions and coma. No other known health effects.
Other information:	No other known health effects
<u>Information on Product:</u> <u>Acute:</u> Oral toxicity:	Not available
Dermal toxicity: Inhalation toxicity: Skin irritation: Eye irritation: Sensitisation:	LD50 rat: >2000mg/kg LD50 rat: =2.3mg/L - 4 hours Slight irritant. Slight irritant. A moderate skin sensitizer
<u>Information Components:</u> <u>Acute:</u> Oral toxicity:	LDE0 rate > 206mg/kg (Dormathrin)
	LD50 rat: >806mg/kg (Permethrin)

Dermal toxicity:	LD50 rat: >1870 mg/kg (Potassium chlorate)
Inhalation toxicity:	Not available.
Skin irritation: Eye irritation: Sensitisation:	Not available. Not available. Not available.
12. ECOLOGICAL INFORMATION	N
ECOTOXOCITY Fish	Bluegill sunfish : LC50: 1.8 µg/L (48 hours)
Daphnia Magna	Rainbow trout (Oncorhynchus mykiss) LC ₅₀ : 5.4 μ g/L (48 hours)
Algae Bees	Water flea (Daphnia magna) LC ₅₀ : 0.6 μ g/L (48 hours). Not available Permethrin is toxic to bees. Oral LD ₅₀ : 0.098 μ g/bee Contact LD ₅₀ : 0.029 μ g/bee
Bird toxicity	Permethrin is practically non-toxic to birds. Chicken: Oral LD ₅₀ : >3000 mg/kg Japanese quail: Dietary LD ₅₀ : >13500 mg/kg

Persistence/degradability SoilLow soil mobility. High potential for bioaccumulation but is
rapidly eliminated from fish (about 80% in 14 days). There is
evidence of degradation in soil and water. The half-life in soil
is less than 38 days.

13. DISPOSAL CONSIDERATIONS

Methods of disposal:	Waste must not enter waterways.
	Empty container scan be wrapped in paper and placed in waste bin.

14. TRANSPORT INFORMATION - International transport regulations

International transport regulations:	Classified as Dangerous Goods for transport by sea and air according to the criteria of the UN Model Regulations for Transport of Dangerous Goods 13th Edition.
UN number:	UN3077
Class or Division: Subsidiary Class:	9
Packing Group:	III
Hazchem code:	2X
EPG	9C1
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN)

15. REGULATORY INFORMATION

ACVM Registered Number: HSNO Approval Code:

HSR100873

16. OTHER INFORMATION

Original Issue Date: Revision Date: 8 March 2021 Replaces: ES465

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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