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MATERIAL SAFETY DATA SHEET

IMPERATOR® SMOKE GENERATOR INSECTICIDE Date of Issue: June 2012

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Imperator® Smoke Generator Insecticide

Other names: None

Recommended Insecticide

use:

Supplier: AgNova Technologies Pty Ltd

ACN: 097 705 158

Address: Suite 3/935 Station Street

Box Hill North

Victoria 3129 Australia

Managing Director

 Telephone:
 (03) 9899 8100

 Facsimile:
 (03) 9899 8500

 Website:
 www.agnova.com.au

Emergency Telephone

Contact:

Number: 1800 033 111 (24 hours)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE - DANGEROUS GOOD

Hazard Hazardous according to the criteria of NOHSC.

designation:

ADG

Risk phrases: R9 – Explosive when mixed with combustible material.

R20 – Harmful by inhalation. R22 – Harmful if swallowed.

Safety phrases: S2 – Keep out of reach of children.

S13 – Keep away from food, drink and animal feeding stuffs.S16 – Keep away from sources of ignition – No Smoking.S27 – Take off immediately all contaminated clothing.

Not classified as Dangerous Good for Land Transport (see section

classification: 14).

SUSMP Poison Schedule 6 (S6)

classification: (Standard for the Uniform Scheduling of Medicines and Poisons)



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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (%w/w):
Potassium perchlorate	3811-04-9	12.7
Permethrin	52645-53-1	13.5
Other ingredients	(non hazardous)	Balance

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Aid in breathing, if necessary, and get

immediate medical attention.

Skin contact: If skin contact occurs, remove contaminated clothing and wash with

soap and water. If irritation occurs seek medial advice.

Eye contact: In case of contact, immediately flush eyes with copious quantities of

water for at least 15 minutes. Seek medical advice.

Ingestion: If swallowed rinse mouth with water and give water to drink.

Immediately contact a doctor or Poisons Information Centre (telephone: 13 11 26) and follow the advice given. Only induce

vomiting at the instruction of a physician.

First Aid

Facilities:

Ensure washing facilities are available.

5. FIRE FIGHTING MEASURES

Extinguishing

media:

Water fog, foam or dry agent.

Hazards from combustion

During a fire this product may release smoke, hazardous

decomposition products and toxic fumes.

products: Precautions for

Wear self-contained breathing apparatus and structural fire fighters

fire fighters: uniform.

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6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective clothing and boots. Prevent spill from entering drains, sewers or any body of water. Contain and absorb with sand, earth or inert absorbent. Scoop or shovel into sealable containers for disposal in accordance with applicable local, state and federal regulations. Decontaminate area with soap and water. Rinse.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid breathing vapour/mist. Use

with adequate ventilation.

Storage: Store in a cool, dry well-ventilated area out of direct sunlight. Store

in a locked room away from children, authorised persons, animals,

food, feedstuffs, seed and fertilisers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure

standards: No occupational exposure standards have been established for the

product or the other ingredients excluding Permethrin.

Permethrin→10 mg/m³ TWA for an 8 hour day/5 day working week.

Engineering

controls: Ensure adequate ventilation. Use with local exhaust ventilation or

while wearing a dust mask to avoid breathing vapour.

Personal

Protective Eyes: Safety glasses. **Equipment:** Gloves: Impervious gloves.

If inhalation risk use an organic vapour respirator Respiratory:

meeting the requirements of AS/NZS 1715 and

AS/NZS 1716.

Other Use Other:

Leave immediately after lighting smoke **Precautions:**

generators. Thoroughly ventilate treated areas

before re-occupying.

To be used strictly in accordance with label instructions.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white powder
Odour: Permethrin odour
Vapour Not applicable

pressure:

Vapour density: Not applicable **Boiling point:** Not available

Freezing/meltin

g point: Not available

Solubility: Practically insoluble

Density: Not available **pH:** Not available

Molecular

Weight: Not available Flash Point: Not applicable

Flammability

(explosive) Not available

limits:

Auto-ignition

temperature: >130°C

Octanol/water

partition

coefficient: Not available

10. STABILITY AND REACTIVITY

Chemical Stable

stability:

Hazardous None

polymerisation:

Conditions to None anticipated

avoid:

Incompatible None known

materials:

Hazardous During a fire this product may release smoke, hazardous

decomposition decomposition products and toxic fumes.

products:

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11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Information on Product:

Inhalation: Of dust - May result in respiratory irritation.

Of smoke/vapour – irritant to mucous membranes and respiratory

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tract.

Skin contact: May cause skin irritation.

Eye contact: May cause eye irritation.

Ingestion: No adverse health effects are expected from swallowing.

Other: No other known health effects.

Chronic:

Prolonged or repeated skin contact may lead to allergic dermatitis.

Overexposure may result in nausea, vomiting, diarrhea and in severe cases central nervous system depression, leading to tremours, convulsions and coma.

Information on Product:

Acute:

Oral toxicity: Not available

Dermal toxicity: LD₅₀ rat: >2000 mg/kg

Inhalation LC_{50} rat: = 2.3 mg/L/4 hours

toxicity:

Skin irritation: Slight irritant **Eye irritation:** Slight irritant

Sensitisation: A moderate skin sensitiser

Information on Components:

Acute:

Oral toxicity: LD₅₀ rat: >806 mg/kg (Permethrin)

LD₅₀ rat: >1870 mg/kg (Potassium chlorate)

Dermal toxicity: Not available **Inhalation** Not available

toxicity:

Skin irritation: Not available Eye irritation: Not available Sensitisation: Not available

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12. ECOLOGICAL INFORMATION

For the active ingredient; Permethrin

Fish toxicity: Bluegill sunfish LC_{50} : 1.8 μ g/L (48 hours)

Rainbow trout (*Oncorhynchus mykiss*) LC_{50} : 5.4 µg/L (48 hours)

Daphnia

Water flea (*Daphnia magna*) LC₅₀: 0.6 µg/L (48 hours)

toxicity:

Toxicity to Not Available

algae:

Bird toxicity: Permethrin is practically non-toxic to birds.

Chicken: Oral LD₅₀: >3000 mg/kg

Japanese quail: Dietary LD₅₀: >13500 mg/kg

Bee toxicity: Permethrin is toxic to bees

Oral LD₅₀: $0.098 \mu g/bee$

Contact LD₅₀: $0.029 \mu g/bee$

Other: None

Environmental

fate,

persistence and

degradation:

Low 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

Disposal of Waste Method: Waste must not enter waterways.

Contaminated Packaging: Empty containers can be wrapped in

paper and placed in waste bin.

14.TRANSPORT INFORMATION

TransportRoad and Rail Transport: Not dangerous goods under the ADG7

Classification: when being transported in IBCs or other receptacles <500 L (kg),

(Special Provision AU01).

Marine and Air: 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



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UN number: 3077

Proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

shipping name:

Class and 9

Subsidiary

Risk:

Packing III

Group:

EPG: 9C1 **Hazchem code**: 2X

15. REGULATORY INFORMATION

APVMA Registered according to the Agricultural and Veterinary Chemicals

Act 1994

APVMA approval number: 59694

SUSMP Schedule 6

16. OTHER INFORMATION

Trademark ® IMPERATOR is a registered trademark of a Syngenta Group

information: Company

Abbreviations APVMA – Australian Pesticides and Veterinary Medicines Authority

and NOHSC – National Occupational Health and Safety Commission

Acronyms: SUSMP – Standard for the Uniform Scheduling of Medicines and

Poisons

Date of June 2012.

Preparation or

Revision:

Data sources: Manufacturer and published data.

This MSDS 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.

The opinions expressed herein are those of qualified experts with the manufacturer. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd, it is the user's obligation to determine the conditions of safe use of the product.

END OF MSDS