



**GORICH**  
TECHNOLOGY  
LIMITED

**PM SMOKE 百滅**



**MATERIAL  
SAFETY DATA  
SHEET V.2017**

**1. Product:** PM SMOKE 88g

**2. Registration No:** 1P55 (FU). Agriculture, Fisheries and Conservation Department. Hong Kong.

**3. Manufacturer**

Octavius Hunt Ltd. U.K.

**4. Emergency Contact**

Gorich Technology Limited  
Tel: (852) 2889 0637 Fax: (852) 2590 0255  
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**5. Description**

A synthetic pyrethroid insecticide.  
A smoke generator.  
Product Code: G0101, G0102, G0103, G0104

**6. Hazardous Ingredient(s)**

	CAS No.	%(w/w)	Symbol	R Phrases
Permethrin	052645-53-1	10.00	Xn	R22
Potassium Chlorate	003811-04-9	20.00	O, Xn	R9 R20/22

**7. Hazards Identification**

Ignites readily, burns without flaming, giving dense white harmful smoke.  
Harmful if swallowed.  
Irritating to eyes and respiratory system.  
Toxic to fish and other aquatic life.  
Toxic to bees.

**8. Fire-Fighting Measures**

Ignites readily.  
Oxidising agent will assist combustion.  
Keep fire exposed containers cool by spraying with water.  
Extinguishing Media: use large volumes of water as a spray or fog, avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.  
Fire Fighting Protective Equipment: A self contained breathing apparatus and full protective clothing must be worn in fire conditions.

**9. First Aid Measures**

Inhalation : Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.  
Skin : Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimize contact with skin. Obtain medical attention if irritation occurs / persists.  
Eye : Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.  
Ingestion : If swallowed wash out mouth with water, seek medical advice immediately and show the container, label or this Data Sheet, if possible

**10. Accidental Release Measures**

No naked lights. No Smoking.  
Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls. Cover with moist sand or soil. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water or drains.  
Where spillages or uncontrolled discharges into watercourses occur, the National Rivers Authority must be alerted.

**11. Handling**

Read the label before use.  
Do not breath smoke. Avoid contact with eyes and skin. Wash hands before meals and after work. When using do not eat, drink or smoke.

**12. Storage**

Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep in original container, tightly closed in a safe place. Keep away from heat and sources of ignition.  
Storage Life: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

**13. Exposure Controls / Personal Protection**

When using this product refer to the label for details. Should it be necessary to enter the treated area whilst smoke remains in the atmosphere, respiratory protective equipment and eye protection must be used (see HSE Guidance Booklet (HS) G 53 "Respiratory Protective Equipment-a practical guide for users"). Following treatment, the area should be made secure and signs displayed stating: "Smoke treatment in progress. Do not enter. Ventilate thoroughly before entry."  
Occupational Exposure Limits

HAZARDOUS INGREDIENT(S)	LTEL		8hr TWA		STEL	
	ppm	mg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Permethrin	-	5*	-	-	-	-

\*Manufacturers recommendation

**14. Physical and Chemical Properties**

Appearance : Off-white powder in an aluminum container.  
Odour : Distinctive odour of Permethrin.  
pH : Not applicable  
Boiling point : Not applicable  
Melting point : Not applicable  
Flash point : Does not flash  
Auto flammability : >130°C  
Explosive Properties : Not applicable  
Oxidising Properties : Oxidising agent will assist combustion.  
Vapour pressure : Not applicable  
Relative density : Not applicable  
Solubility (water) : Partially soluble  
Partition coefficient : Not applicable

**15. Stability and Reactivity**

Stability : Stable under normal conditions.  
Hazardous Reactions : Ignites readily.  
Hazardous Decomposition Product(s) : Combustion or thermal decomposition will evolve harmful and irritant vapours.

**16. Toxicological Information**

This health hazard assessment is based on information available on similar products.  
Inhalation : Smoke may cause upper airway irritation.  
Skin : Sensations of transient skin irritation may occur.  
Ingestion : Burning in mouth, vomiting, nausea, tremors and convulsions may occur. Acute oral LD<sub>50</sub> (rat): 1479mg/kg Permethrin, 1260 mg/kg Potassium chlorate.  
Eye : Transient eye irritation may occur.



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**17. Ecological Information**

Toxicity  
This ecological assessment is calculated from data available on the components of the formulation.  
Toxic to fish  
LC<sub>50</sub> (96h) for rainbow trout approx. 0.3mg/l.  
Toxic to bees  
Un-burned composition is non-selectively toxic to plants.  
Not readily biodegradable.

**18. Disposal Considerations**

Do not contaminate ponds, waterways or ditches with chemical or used containers. Dispose of product and empty containers according to the "Code of Practice for the Safe Use of Pesticides on Farms and Holdings" available from HSE Books. Empty containers should not be used for other purposes.  
Disposal should be in accordance with local, state or national legislation.

**19. Transport Information**

UN No. : N/A  
UN Pack Group : N/A  
  
AIR  
ICAO / IATA class  
-primary : N/A  
  
SEA  
IMDG Class  
-primary : N/A  
Marine Pollutant :  
Proper Shipping Name : N/A  
  
ROAD / RAIL  
ADR / RID Class : N/A

**20. Regulatory Information**

This product is covered by the Control of Pesticides Regulations 1986. It has therefore been labeled in accordance with these Regulations.  
Users should ensure that they comply with any relevant local, state or national legislation.  
  
Safety Phrases S2 Keep out of reach of children.  
S13 Keep away from food, drink and animal feeding stuffs  
S20/21 When using do not eat, drink or smoke.  
S23 Do not breath fumes  
S28 After contact with skin, wash immediately with plenty of water.  
S35 This material and its container must be disposed of in a safe way.  
  
UK Regulatory Information: Health and safety at Work Act 1974  
The Control of Substances Hazardous to health Regulations 1994, may apply to this product.

**21. Other Information**

This data sheet was prepared in accordance with Directive 91 / 155 / EEC  
Use: A broad spectrum insecticide applied in smoke form.  
Read the label before you buy.  
Use pesticides safety.