



Environmental Health Products  
PO Box 100287, NSMC,  
Auckland, New Zealand  
Ph: (09) 440 9994  
Fax: (09) 443 5083

## MATERIAL SAFETY DATA SHEET

Date of Preparation – July 2008

### PYRIFOS G

#### 1. PRODUCT AND COMPANY IDENTIFICATION

##### PRODUCT NAME

PYRIFOS G

##### OTHER PRODUCT NAMES

Chlorpyrifos G

##### RECOMMENDED USE

A granular insecticide for the control of various pests in turf, gardens and other outdoor areas.

##### COMPANY IDENTIFICATION

Environmental Health Products,  
42B Ellice Rd, Glenfield, Auckland.  
Phone: 09 440 9994  
Fax: 09 443 5083

##### EMERGENCY TELEPHONE NUMBERS

24 hour Emergency Service Phone:- 0800 Chemcall (0800 243 622)  
National Poisons Centre: - 0800 764 766

#### 2. HAZARDS IDENTIFICATION

HSNO CLASSIFICATION            N/A

**Appearance** ..... A tan coloured granule

**Health Hazards**..... Toxicity is low

**Skin Irritant**..... May cause some skin irritation after prolonged contact and will irritate broken skin.

**Eye Irritant**..... May irritate eyes

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

A granular insecticide for the control of various pests in turf, gardens and other outdoor areas.

#### Physical Description/Properties

Appearance: ..... A tan coloured granule

Flash Point (°C): ..... N/A

Boiling Point (°C): ..... N/A

Flammability Limits (%): ..... N/A

Vapour Pressure: ..... N/A

Solubility in Water (g/L): ..... Insoluble

Specific Gravity: ..... 1.1g/ml (bulk density)

Chemical Entity	CAS Number	Proportion
Chlorpyrifos	2921-88-2	50g/Kg
Petroleum Solvents	63231-51-6 & 64742-4-8	<50g/Kg
Emulsifiers and inerts		900g/Kg

### 4. FIRST AID MEASURES

#### ACUTE

Chlorpyrifos is an organo-phosphate insecticide and will inhibit cholineesterase. Symptoms of overexposure to the active constituent may include headaches, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhoea, sweating, constrictive pupils, blurred vision, salivation, tightness of the chest, excessive urination and convulsions.

#### SWALLOWED

The acute oral toxicity of the active constituent is high with reported LD<sub>50</sub> measurements for the active at 115mg/Kg. Because of the low levels of active constituent in this product the risk of serious poisoning by ingestion is low.

#### EYES

May irritate eyes.

#### SKIN

The acute dermal toxicity for the active constituent is low and the formulation makes the risk of poisoning by this route very small. The product may cause some skin irritation after prolonged contact and will irritate broken skin.

#### INHALED

The risk of poisoning by dust inhalation is low but the dust will irritate the mucous membranes and cause sinuous discomfort. Prolonged exposure to the product may cause headaches and other discomfort as a result of the presence of petroleum solvents.

## **CHRONIC**

Rats and mice which were administered the active ingredient in long term studies showed no increase in tumours compared to the control. Studies in rats and rabbits indicate that the active constituent does not cause birth defects or interfere with reproduction. There is no known evidence of genetic change or accumulation of the active constituent in the body.

## **SWALLOWED**

If swallowed contact a doctor or the National Poisons Centre (0800 764 766)

## **EYES**

If in eyes hold eyelids open, flood with water for at least 15 minutes and see a doctor if irritation persists.

## **SKIN**

Wash skin with soap and water.

## **INHALED**

Remove victim to fresh air and seek medical advice if effects persist. If breathing difficulties become acute give oxygen.

## **ADVICE TO DOCTOR:**

Chlorpyrifos is a cholinesterase inhibitor. Atropine by injection or Atrovent/ipratropium by airway puffs are the desirable antidotes. Oximes such as 2 PAM/protopam may be therapeutic if used early but only in conjunction with atropine.

## **5. FIRE FIGHTING MEASURES**

Product is not highly flammable although the small amount of petroleum solvent will support short term combustion.

## **6. ACCIDENTAL RELEASE MEASURES**

### **SPILLS AND DISPOSAL**

- Spills should be swept or vacuumed.
- Avoid breathing dust.
- Personal protective equipment as outlined above should be utilised in cleaning up all spills.
- The best method of disposal of spills is to use the product in accordance with the label directions. If this is not possible dispose of at an appropriate local authority landfill

## **7. HANDLING AND STORAGE**

### **Personal Protection**

When using the product wear rubber gloves. Avoid breathing dust by using an appropriate dust mask. Wash hands after use.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls**

Use only in well ventilated areas.

**Exposure Standards**

Time weighted average for chlorpyrifos is 0.2 mg/m<sup>3</sup>. Exposure standards for nuisance dusts should also be observed.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** ..... A tan coloured granule

**Flash Point (°C)** ..... N/A

**Boiling Point (°C)** ..... N/A

**Flammability Limits (%)** ..... N/A

**Vapour Pressure** ..... N/A

**Solubility in Water (g/L)** ..... Insoluble

**Specific Gravity** ..... 1.1g/mL (bulk density).

**10. STABILITY AND REACTIVITY****PRECAUTIONS FOR USE****Exposure Standards:**

Time weighted average for chlorpyrifos is 0.2 mg/m<sup>3</sup>. Exposure standards for nuisance dusts should also be observed.

**Engineering Controls:**

Use only in well ventilated areas.

**Personal Protection:**

When using the product wear rubber gloves. Avoid breathing dust by using an appropriate dust mask. Wash hands after use.

**Flammability:**

Product is not highly flammable although the small amount of petroleum solvent will support short term combustion.

**11. TOXICOLOGICAL INFORMATION**

Chlorpyrifos is toxic to birds, fish and bees. The product should be irrigated immediately after use to move the granules from the surface to reduce the risk of poisoning to foraging birds. Do not apply in any manner which may result in the granules washing into waterways. Chlorpyrifos does not bioaccumulate in animal systems.

**12. ECOLOGICAL INFORMATION**

Do not apply in any manner which may result in the granules washing into waterways. Chlorpyrifos does not bioaccumulate in animal systems.

**13. DISPOSAL CONSIDERATIONS**

The best method of disposal of spills is to use the product in accordance with the label directions. If this is not possible dispose of at an appropriate local authority landfill.

**14. TRANSPORT INFORMATION**

**Storage and Transport**

Store in a cool dry place in sealed original containers away from direct sunlight. Store away from food, feed or any items intended for human or animal consumption. Keep out of reach of children. Product is not classified as a dangerous good under current transport regulations.

**15. REGULATORY INFORMATION**

Product is not classified as a dangerous good under current transport regulations.

**16. OTHER INFORMATION**

**Date of Preparation – July 2008**

**NOTICE**

Information for this product is believed to be reliable, however buyer and user assume all risk of use, handling and storage whether in accordance with directions or not. Environmental Health Products and its agents give no guarantee or warranty of any kind expressed or implied concerning the use of this product and will not accept any responsibility whatsoever whether in contract or tort for any loss including consequential loss arising out of the use of this product or caused by this product