



Dow Haltermann Custom Processing
Mitchell Cotts Chemicals
A Division of Haltermann Limited
A Subsidiary of The Dow Chemical Company
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FACSIMILE MESSAGE

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MESSAGE

Safety Data Sheet as requested

Revised

Product: Pynosect PCO
Date: 08 January 2001
Issue: 04

SAFETY DATA SHEET

PYNOSECT PCO

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Identification of the substance:

Pynosect PCO

Company Identification:

Mitchell Cotts Chemicals, P O Box 6, Steanard Lane, Mirfield, West Yorkshire, England, WF14 8QB.
Tel: + 44 (0) 1924 493861 (24 hours)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Composition: Contains 250 g/l technical Permethrin (cis:trans 40:60) in a high boiling, high aromatic solvent.

Classification: Irritant (Xi)

Risk phrases: R36/38 - Irritating to eyes and skin

3. HAZARD IDENTIFICATION IRRITANT AND DANGEROUS FOR THE ENVIRONMENT

Irritating to eyes and skin. Very toxic to aquatic organisms and bees.

In some individuals a reversible and characteristic skin irritation effect usually associated with the natural pyrethrins may be experienced.

4. FIRST AID MEASURES

Inhalation:

Remove to fresh air, keep warm and at rest. Apply artificial respiration (not mouth-to-mouth) if necessary. Obtain immediate medical attention.

Skin contact:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Obtain medical attention.

Eye contact:

Flush eye with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating eyelids with fingers. Obtain immediate medical attention.

Ingestion:

Refer to doctor or nearest hospital. Inform doctor of product involved and show product label. If breathing has stopped apply artificial respiration.

Advice to Medical Practitioner:

No specific antidote is known. Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media:

Small Fire - Use CO₂, dry powder, sand or earth.

Large Fire - Use foam, water fog, or spray.

Unsuitable Extinguishing media:

Do not use water jet.

Special Exposure Hazards:

In the event of fire, the evolution of toxic fumes of hydrogen chloride and oxides of carbon must be anticipated. Pynosect PCO is highly toxic to aquatic organisms and fire-control water should not be allowed to enter drains and watercourses.

Special Protective Equipment:

Standard fire-fighting clothing and eye protection must be worn. Positive pressure breathing apparatus should be used in a fire situation.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear suitable protective clothing, gloves and faceshield when dealing with spillage.

Environmental Precautions:

Prevent spillage from entering the drainage system or watercourses. If contamination of drains or watercourses is unavoidable warn the local water authority immediately.

Methods for Cleaning Up:

Transfer any product remaining in damaged or leaking containers into a clean, empty drum and label the drum. Absorb spillage of Pynosect PCO with sand, earth or suitable spill-control material. Transfer into secure labelled drums for safe disposal in accordance with local regulations. Ventilate area.

7. HANDLING AND STORAGE

Precautions for safe handling:

Wear suitable protective clothing (coveralls), gloves and eye protection when handling the concentrate.

Precautions during storage:

Concentrate: Non flammable, but will support combustion. Store in original containers tightly closed and properly labelled. Store in a cool, well ventilated area, out of reach of children, and away from food, drink and animal feeding stuffs.

Spray Solution: Do not store diluted spray solution. Use on day of dilution.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits/Biological standards:

Not determined

Respiratory protection:

Take suitable precautions to avoid inhalation of spray.

Hand protection:

Chemical resistant gloves

Eye protection:

Safety glasses

Skin protection:

Coveralls and boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: A clear brown solution
Odour: Mild, chemical odour
pH: Not applicable
Flash Point: 88°C (Setaflash)
Flammability: Not flammable, but will support combustion.
Explosive Properties: Not explosive
Oxidising Properties: Not oxidising
Density: 0.98 - 1.01 g/cm³ at 25°C

10. STABILITY AND REACTIVITY

Stability:

More stable in acid than alkaline media.

Conditions to avoid:

No known conditions that could cause a dangerous reaction.

Materials to avoid:

Avoid contact with alkalis, as Permethrin, the active ingredient of Pynosect PCO, is hydrolysed by alkalis.

Hazardous decomposition products:

In the event of fire, the evolution of hydrogen chloride and oxides of carbon must be anticipated.

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11. TOXICOLOGICAL INFORMATION

Toxicological data:

Acute Oral - rat LD₅₀: 6700 mg/kg (undiluted)

Acute Dermal - rat LD₅₀: > 7200 mg/kg

Skin Irritation: Moderate irritant to rabbits

Eye Irritation: Irritant

EFFECTS OF EXPOSURE:

Inhalation:

Irritating to respiratory system.

Ingestion:

Accidental or deliberate ingestion could lead to neurological signs and symptoms, such as ataxia, tremors and convulsions.

Skin contact:

Moderate skin irritant. May cause transient tingling or burning sensations, especially on the face.

Eye contact:

Irritating to eyes

Chronic effects:

Solvent has a degreasing action on the skin and may produce a dry, scaly, fissured dermatitis. Inhalation of significant amounts of solvent vapour may cause chemical pneumonitis. Tests of the active ingredient, Permethrin, in animals have shown no carcinogenic, mutagenic or teratogenic effects.

12. ECOLOGICAL INFORMATION

INFORMATION RELATED TO THE ACTIVE INGREDIENT PERMETHRIN ONLY

Mobility:

Studies to investigate the leaching potential of Permethrin and its degradates showed that very little downward movement occurs in soil. Permethrin in the aquatic environment adsorbs to vegetation and hydrosol.

Persistence and degradability:

Permethrin degradation in soil has a half-life of 28 days or less.

Permethrin disappears rapidly from the aqueous environment, in 6-24 hours from ponds and streams and 7 days from pond sediment.

In water and on soil surfaces Permethrin is degraded by sunlight. The degradative processes which occur in the environment lead to less toxic products.

Bioaccumulative potential:

Bioaccumulation of Permethrin in mammals and aquatic organisms is not expected.

Ecotoxicity:

Permethrin is very toxic to aquatic organisms. Measured 96 hr LC₅₀ in fish ranges from 0.62 - 314 µg/litre on a flow through test and 3.2 - 5.7 µg/litre in a static test. Permethrin has a very low toxicity for mammals and birds. However Permethrin is very toxic to bees, with a 24 hr measured topical LD₅₀ of 0.029 µg/bee.

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13. DISPOSAL CONSIDERATIONS

Disposal of product:

Pynosect PCO should be disposed of by high temperature incineration with effluent scrubbing. Product should be disposed of in accordance with local and national regulations.

Disposal of packaging:

Empty containers should not be re-used for any purpose and disposed of in accordance with local regulations.

National or regional legislation:

Consult your local waste regulatory authority if in any doubt.

14. TRANSPORT INFORMATION

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(contains Permethrin)
UN Number: 3082
Class: 9
Primary Hazard: Miscellaneous
Packing Group: III
Item Number (for ADR): 11° (c)
Marine Pollutant: Marine Pollutant

15. REGULATORY INFORMATION

When this product is sold as a registered pesticide it will carry the approved label for the country in which it is registered and NOT the EC or any other supply label.

EC Supply Label

Symbol: Xi (Irritant)
Risk phrases: R36/38 Irritating to eyes and skin
Safety phrases: S23 Do not breathe spray
S25 Avoid contact with eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51 Use only in well-ventilated areas
Other Phrases: This container must not be re-used for any purpose.

National Legislation:

The Chemicals (Hazard Information and Packaging for Supply) Regulations, 1994, amended 1996, 1997, 1998, 1999 and 2000.

The Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations, 1996, amended 1998.

The Carriage of Dangerous Goods by Road Regulations, 1996, amended 1999.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) and Protocol of Signature, 1999 edition.

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IATA Dangerous Goods Regulations, 2001

IMDG Code, 2000 Edition.

Eurotunnel Freight Practical Guide for the Transport of ADR Regulated Goods, 1999 edition

16. OTHER INFORMATION

Recommended Uses:

For professional use as a public health insecticide.

References:

Permethrin, Environmental Health Criteria 94, WHO, Geneva 1990. ISBN 92 4 154294 2

Permethrin, Health and Safety Guide No 33. WHO Geneva 1989. ISBN 92 4 154354 X.

Further Information:

Please contact Mitchell Cotts Chemicals, P O Box 6, Steanard Lane, Mirfield, West Yorkshire, WF14 8QB, England. Telephone +44 (0) 1924 493861. Facsimile +44 (0) 1924 490972

This Material Safety Data Sheet is an update of Issue 03. Changes have been made to sections 1, 2, 3, 4, 6, 11, 14, 15 and 16.