

SAFETY DATA SHEET

CHLORFOS 480 Organophosphate Insecticide

Date of Issue: 11th July 2018

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):	chlorpyrifos
Chemical Family:	Organophosphate
Recommended use:	Insecticide
Supplier:	Agrisource 2000 Limited 45 Kitchener Road Pukekohe Phone: 09 237 0422
Emergency telephone number:	0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classifications: 3.1D, 6.1C, 6.1D, 6.3B, 6.4A, 6.8B, 6.9A, 9.1A, 9.2B, 9.3A, 9.4A

Required identification Details:

- 3.1D: **WARNING – Combustible Liquid**, Keep away from sources of ignition.
- 6.1C: **TOXIC – Keep out of the reach of children**. May be harmful if swallowed, or absorbed through the skin.
- 6.1D: **HARMFUL** if inhaled
- 6.3B: **HARMFUL** – May cause mild skin irritation.
- 6.4A: **HARMFUL** - May cause eye irritation.
- 6.8B: **HARMFUL** - may cause reproductive damage from repeated oral exposure at high doses.
- 6.9A: **TOXIC** – May cause organ damage from repeated oral exposure at high doses.
- 9.1A: **ECOTOXIC** – Very Toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.
- 9.2B: **Toxic** to the soil environment.
- 9.3A: **Very toxic** to terrestrial vertebrates.
- 9.4A: **Very toxic** to terrestrial invertebrates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
chlorpyrifos	2921-88-2	48
Hydrocarbon solvent	64742-94-5	44
Other ingredients		Balance

4. FIRST-AID MEASURES

Description of necessary first aid measures: In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. **Phone 0800 764 766, (0800 POISON).**

General information:

Remove the affected person from the source of exposure. Remove all contaminated clothing and wash affected area. If you feel unwell seek medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin contact:

In case of skin contact, immediately flush skin with plenty of water and soap. Remove contaminated clothing. Cold water may be used. Wash clothing before reuse. Get medical attention if irritation persists.

Eye contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

Advice to Physician:

Antidote 1: Atropine sulphate. Antidote 2: Obidoxime chloride or Pralidoxime (PAM)
Suggest serum and/or RBC cholinesterase determination.
If ingested perform gastric lavage and administer activated charcoal.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

2X

Extinguishing media :

Water spray, extinguishing powder, foam, carbon dioxide.

Hazardous thermal decomposition products:

Carbon monoxide, carbon dioxide, hydrogen chloride, sulfur oxide, nitrogen oxides, phosphorus oxides, chlorides sulphide.

Protection of fire-fighters:

Wear protective clothing and self contained breathing apparatus. Do not breathe smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes. Do not inhale spray. Wear Full Personal Protective Equipment (PPE). Chemical resistant coveralls, chemical resistant gloves, chemical resistant footwear plus socks, chemical resistant headgear and chemical resistant eyewear. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing after work.
Environmental precautions:	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
Methods for cleaning up:	In the case of spillage, contain spilled material. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum or shovel waste into a drum. To decontaminate spill area, tools and equipment, wash with water. Dispose of drummed wastes in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling:	Avoid inhaling aerosols and vapors. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Packaging materials:	COEX Plastic bottle.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:	Chlorpyrifos: 0.2, A4 skin (1999, USA) TVL-TWA [mg/m³]
Exposure Standards outside: The workplace:	No exposure standards have been set for this product or the active ingredients.
<u>Engineering measures</u> Exposure control measures:	Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protective Equipment (PPE)

Detail specifications for equipment:	
Respiratory system:	N/A
Skin and body:	Chemical resistant coveralls, chemical resistant footwear plus socks, chemical resistant headgear for overhead exposures.

Hands:	Chemical resistant gloves.
Eyes:	Chemical resistant eyewear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Amber
Odour:	Aromatic solvent
pH:	4 – 6
Specific gravity or density:	Approx. 1.087-1.100 (20°C) (refer to specific batch COA)
Flashpoint:	>65°C.
Oxidation properties:	Not an oxidizer.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal ambient and anticipated storage conditions (0° - 30° C.)
Conditions to avoid:	Extreme heat.
Materials to avoid:	Strong oxidizing agents, strong acids.
Hazardous decomposition Products:	Thermal decomposition generates: carbon monoxide, carbon dioxide, hydrogen chloride, sulfur oxide, nitrogen oxides, phosphorus oxides, chlorides, sulfides.
Hazardous reactions :	At high temperatures, oxides of carbon may be formed which can be toxic, flammable or even corrosive.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral :	LD ₅₀ 508 mg/kg (rat)
Acute toxicity - Dermal :	LD ₅₀ > 2,000 mg/kg (rabbit)
Acute toxicity – Inhalation	LC ₅₀ 3.3 mg/l (rat)
Skin irritation :	Irritating to skin (rabbit)
Eye irritation:	Irritating to eyes (rabbit)
Sensitisation :	Sensitizer (guinea pig)

12. ECOLOGICAL INFORMATION

Toxicity to fish:	LC ₅₀ = 7.1 mg/l ,96 hr(Rainbow trout)
Toxicity to daphnia:	LC ₅₀ (48h) 1.7mg/l daphnia magna
Toxicity to algae:	EC ₅₀ >0.4mg/l (selenastrum capricornutum)
Toxicity to birds:	LD ₅₀ 476mg/l
Toxicity to bees:	Toxic to bees

13. DISPOSAL CONSIDERATIONS

Methods of disposal :

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.

CONTAINER DISPOSAL: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

14. TRANSPORT INFORMATION -International transport regulations

UN number:

3018

Class:

6.1

Packing Group:

III

Marine Pollutant:

Yes

Proper shipping name :

ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, N.O.S.
(contains chlorpyrifos)

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

ACVM Registered Number:

P5913 (See www.foodsafety.govt.nz for registration Conditions).

HSNO Approval Code:

HSR000224 (See www.epa.govt.nz for controls).

Approved Handler:

This product must only be applied by an Approved Handler or under the supervision of an Approved Handler.

Tracking:

Location and movement of this product must be recorded at each stage of its lifecycle.

16. OTHER INFORMATION

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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