

# Safety Data Sheet

## Pychlorex® 48EC

Date of issue: 8<sup>th</sup> June, 2015

<b>1) Identification of Substance:</b>	
Product name:	Pychlorex 48EC
Active Ingredient(s):	Chlorpyrifos 480 g/L EC.
ACVM Approval:	P5585
EPA Approval:	HSR000171
Distributed by:	Adria Crop Protection P.O. Box 535 Kumeu 1250, Auckland Ph: 09-412-9817 Fax: 09-412-9807 <a href="http://www.adriacp.co.nz">www.adriacp.co.nz</a>
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766
<b>2) Hazards Identification:</b>	
HSNO Classifications:	3.1C, 6.1C(oral), 6.1E (dermal), 6.1D (inhalation), 6.3B, 6.4A, 6.8B, 6.9A, 9.1A, 9.2B, 9.3A, 9.4A
Risk Phrases	Flammable liquid and vapour. May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye and mild skin irritation. May cause reproductive/development effects from repeated ingestion. May cause neurological symptoms (See 'Symptoms of Poisoning' below) from repeated ingestion at high doses. Very toxic to aquatic organisms, terrestrial vertebrates and terrestrial invertebrates.
Environmental hazard	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Primary route of exposure	Vapours inhalation. Skin contact.
Symptoms relating to use	
- Inhalation	Cough. Shortness of breath. Breathing difficulties. Headache.
- Skin contact	Redness, pain. May cause immediate skin irritation and blistering.
- Eye contact	Blurred vision. Tears. Burning sensation. Redness, pain. Eye irritant upon direct contact. Risk of damage to eyes.
- Ingestion	Abdominal pain, nausea. Swallowing a small quantity of this material will result in serious health hazard.

<b>3) Composition Details:</b>		
Chemical identity:	Chlorpyrifos-ethyl	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Chlorpyrifos-ethyl	002921-88-2	43.1 to 45.9 %
<b>4) First Aid Measures:</b>		
First Aid:		
Skin contact:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.	
Eye contact:	In case of eye contact, immediately rinse with clean water for 10-15 minutes. Contact ophthalmologist immediately.	
Ingestion:	DO NOT INDUCE VOMITING. If swallowed, rinse mouth with water (only if the person is conscious). Seek medical attention immediately. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.	
Inhalation:	Assure fresh air breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention if breathing difficulty persists.	
Note to Physician:	Antidote as for organophosphate poisoning.	
<b>5) Fire-Fighting Measures:</b>		
Flammable Class	This product is flammable.	
Prevention	Keep away from sources of ignition. No smoking.	
Extinguishing media	Dry chemical. Water. Carbon dioxide. Foam.	
Surrounding fires	Use water spray or fog for cooling exposed containers.	
Special exposure hazards	May form flammable vapour-air mixture.	
Protection against fire	Do not enter fire area without proper protective equipment, including respiratory protection.	
Special procedures	Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.	
<b>6) Accidental Release Measures:</b>		
Personal precautions:	No smoking. Keep public away from danger area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.	
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.	
Clean up methods	Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.	

<b>7) Handling &amp; Storage:</b>	
General	Keep away from sources of ignition - No Smoking. Do not breathe vapours.
Precautions in handling and storage	Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
Technical Protective Measures:	Use grounded electrical/mechanical equipment.
Handling:	Apply using calibrated and maintained equipment in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409). Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs. Storage must be generally in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409).
<b>8) Exposure Control / Personal Protection:</b>	
<b>PERSONAL PROTECTIVE (PPE) AND RESPIRATORY PROTECTIVE EQUIPMENT (RPE):</b>	
- Respiratory protection	Use a respirator (organic vapour and particulate matter) during mixing and application.
- Hand protection	Avoid contact with eyes and skin. Avoid inhalation of vapour or spray mist. When mixing or applying, wear chemical resistant overalls, chemical resistant boots and gloves, chemical resistant footwear plus socks, chemical resistant head gear, eye protection. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Avoid handling, mixing or use of the product or container near heat, flame or other source of ignition. Do not use near air vents or ducts.
- Skin protection	
- Eye protection	
- Ingestion	
<b>Industrial hygiene</b>	Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
<b>Bees</b>	<b>THIS PRODUCT IS VERY TOXIC TO BEES. Do not apply this product to any plant or tree likely to be visited by bees:</b> a) At the time of application; or b) Immediately after application until spray has dried; or c) In areas where bees are foraging.

<b>Notification</b>	<p>Notification is only required for aerial use only. The person applying the substance in this situation must:</p> <ul style="list-style-type: none"> <li>- Give written notice to anyone likely to be directly affected (such as owners and occupiers of land, property, buildings or houses immediately next to the application area).</li> <li>- Ensure the notification is given at least 2 working days before, but no more than 4 weeks before, each application of the product.</li> <li>- Ensure the written notice includes: <ul style="list-style-type: none"> <li>a) Where the product will be applied;</li> <li>b) The date and approximate duration of each application;</li> <li>c) The steps that notified parties should take to avoid exposure;</li> <li>d) The name of the organisation(s) applying the product;</li> <li>e) Contact details for the person in charge of the application (phone, email or postal address, including a contact number for immediate contact during application).</li> </ul> </li> </ul>
<b>RESTRICTED ENTRY INTERVAL (REI):</b>	<b>The REI is 24 hours.</b> The person in charge is responsible for making sure no person enters the application area before the end of the REI. A person may only enter the indoor treated area if PPE and RPE is worn as if they were applying the substance.

### 9) Physical & Chemical Properties:

Physical state at 20 °C:	Liquid
Colour:	Red
Odour:	Aromatic
Melting point/boiling point:	-
Density:	1.074 (20°C)
Surface tension [mN/m]:	-
pH:	6.2
Flash point [°C]:	46
Auto Ignition Temperature: [°C]:	476
Explosive Limits:	-
Viscosity:	-
Solubility in water	-

### 10) Stability & Reactivity:

Physico-chemical stability	Stable.
Hazardous decomposition products	According to process conditions, hazardous decomposition products may be generated. Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Halogens. Nitrogen oxides. Sulphur compounds. Hydrochloric acid. Phosphate.
Hazardous Reactions	May release flammable gases.
Materials to avoid	Strong oxidizers.
Conditions to avoid	Open flame. Sparks. Overheating.


### 11) Toxicological Information:

Acute toxicity	Irritating to eyes, respiratory system and skin.
Rabbit dermal LD50 [mg/kg]	2383
Rat oral LD50 [mg/kg]	291.5
Rat inhalation LC50 [mg/l/4h]	2.41
On ingredients	See Heading: Information on ingredients.







### 12) Ecological Information:


Ecological effects information	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
LC50 96h fish [mg/l]	0.3035
48 Hour-EC50 - Daphnia magna [mg/l]	0.0003
On ingredients	See Heading: Information on ingredients.

### 13) Disposal Considerations:

Disposal: 	Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.

### 14) Transportation Information:

Rail/road (RID/ADR):	ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC (Chlorpyrifos (ISO), 48%, Hydrocarbon-solvents (Aromatic)), Class: 6.1 Packaging Group III UN: 3017   
Sea (IMDG code):	ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC (Chlorpyrifos (ISO), 48%, Hydrocarbon-solvents (Aromatic)), Class: 6.1 Packaging Group III UN: 3017 Marine Pollutant   

Air (ICAO/IATA):	<p>ORGANOPHOSPHORUS PESTICIDE, LIQUID, FLAMMABLE, TOXIC (Chlorpyrifos (ISO), 48%, Hydrocarbon-solvents (Aromatic)), Class: 6.1 Packaging Group III Packing instruction: 611/60L - 618/220L UN: 3017</p> 
<b>15) Regulatory Information:</b>	
Approved handlers:	This product must be under the care of an approved handler during use.
Tracking:	Yes.
ACVM controls:	See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions.

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