

Issue Date: 21-Nov-2018

Version 1

1. IDENTIFICATION

<u>Product identifier</u> Product Name	Pyrinex 480 EC
Other means of identification SDS #	ADAMA-274
Registration Number(s) UN/ID No	Pest Control Product Reg. No. 23705 UN3018
Recommended use of the chemical	and restrictions on use
Recommended Use	Pesticide.
Details of the supplier of the safety Manufacturer Address ADAMA Agricultural Solutions Canada 300-191 Lombard Avenue Winnipeg, Manitoba R3B 0X1 1-855-264-6262	
Emergency telephone number Emergency Telephone	For fire, spill and/or leak contact INFOTRAC: 1-800-535-5053 (North America) 1-352-323-3500 (International) For medical emergencies and health/safety inquiries, contact ProPharma Group:

1-877-250-9291

2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Canadian Pest Control Products Act and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. Please see Section 15 for additional information. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015).

Appearance Clear amber liquid

Physical state Liquid

Odor Characteristic

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Aspiration toxicity	Category 1

<u>Signal Word</u> Danger

Hazard statements

Toxic if swallowed Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause cancer May be fatal if swallowed and enters airways



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Take off immediately all contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting Rinse mouth In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Chlorpyrifos	2921-88-2	44.86
Naphtha (petroleum), heavy aromatic	64742-94-5	44.75
Naphthalene	91-20-3	<0.4

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General Advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap and water. Wash contaminated clothing before reuse. Call a poison center or doctor/physician if you feel unwell.
Inhalation	Remove to fresh air. Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial respiration. Seek medical advice.
Ingestion	Immediately call a poison center or doctor/physician. Never give anything by mouth to an unconscious person. Obtain medical attention. Do not induce vomiting unless directed by medical personnel.
Most important symptoms and	effects, both acute and delayed
Symptoms	May cause nose and throat irritation, with possible central nervous system effects. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Liquid ingestion may result in vomiting; aspiration of liquid into the lungs must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage.
Indication of any immediate me	edical attention and special treatment needed
Notes to Physician	Treat symptomatically. This product contains an organophosphate that inhibits cholinesterase. If exposed, plasma and red blood cell cholinesterase test may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration. Contains petroleum distillate. Vomiting may induce aspiration pneumonia.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustible liquid.

Hazardous combustion products Hydrogen chloride. Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Static Discharge Take precautionary measures against static discharge.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures **Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See **Environmental precautions** Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. Methods and material for containment and cleaning up Methods for Containment Prevent further leakage or spillage if safe to do so. Methods for Clean-Up For small spills, absorb with sand, clay, or other inert absorbent. Place in appropriate containers for disposal. For large spills: recover free product. Dike for later disposal. Absorb with inert material and then place in suitable container for chemical waste. Flush spill area with water, collect rinse water in containers for proper disposal. 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of
the reach of children. Store away from incompatible materials. Protect from excessive heat.
Store locked up. Do not store below 20°F (-7°C). Keep/store only in original container. Do
not use food or drink containers for mixing or storage. Storage below 20°F may result in the
formation of crystals. If product crystalizes, store at 50 - 70°F and agitate to re-dissolve
crystals.

Incompatible Materials

Strong alkalis. Amines. Oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chlorpyrifos 2921-88-2	TWA: 0.1 mg/m³ inhalable fraction and vapor S*	(vacated) TWA: 0.2 mg/m ³ (vacated) S*	TWA: 0.2 mg/m ³ STEL: 0.6 mg/m ³
Naphthalene 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³

Appropriate engineering controls

Engineering Controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measures, su	ch as personal protective equipment
Eye/Face Protection	Use splash goggles or face shield when contact may occur.
Skin and Body Protection	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Viton or other impervious gloves are required. Long sleeve shirt, trousers, and safety shoes.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate.
General Hygiene Considerations Wash hands before eating, drinking, smoking and using the toilet. Remove contaminated clothing promptly and wash thoroughly before reused. Discard clothing and other absorb materials that have been drenched or heavily contaminated with this product's concentra Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear amber liquid
Color	Amber
Property	Values
рН	6.2-6.9
Melting point / freezing point	Not applicable
Boiling point / boiling range	Not determined
Flash point	70°C / 158°F
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Liquid-not applicable
Flammability Limit in Air	
Upper flammability or explosive	Not determined
limits	
Lower flammability or explosive	Not determined
limits	
Vapor Pressure	Not determined
Vapor Density	Not determined
Relative Density	1.067
Water Solubility	Not determined
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition temperature	Not available
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

Odor Odor Threshold Characteristic Not determined

Remarks • Method

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Not known to occur.

Conditions to Avoid

Elevated temperatures. Avoid heating above 60°C (100°F). Chlorpyrifos undergoes exothermic decomposition at approximately 130°C (266°F), which can lead to higher temperatures and violent decomposition if generated heat is not removed. Contains petroleum derivative solvent-will burn.

Incompatible materials

Strong alkalis. Amines. Oxidizers.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO2). Hydrogen chloride. Oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Toxic if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorpyrifos	= 135 mg/kg (Rat) = 82 mg/kg (> 5000 mg/kg (Rabbit)= 202	> 200 mg/m³ (Rat)4 h
2921-88-2	Rat)	mg/kg (Rat)= 2 g/kg (Rabbit)	
Naphtha (petroleum), heavy	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m³ (Rat)4 h
aromatic			
64742-94-5			
Naphthalene	= 1110 mg/kg (Rat) = 490 mg/kg (= 1120 mg/kg (Rabbit)> 20 g/kg (> 340 mg/m³ (Rat)1 h
91-20-3	Rat)	Rabbit)	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical name	ACGIH	IARC	NTP	OSHA
Chlorpyrifos 2921-88-2		Group 2A		Х
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	Х

<u>LEGEND</u> IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Aspiration hazard

May be fatal if swallowed and enters airways.

Numerical measures of toxicity

Acute Oral LD50 (Rat): 409 mg/kg Acute Dermal LD50 (Rabbit): >2,000 mg/kg Acute Inhalation LC50 (Rat): 2.62 mg/kg Eye Irritation: Severely irritating Dermal Irritation: Severely irritating Dermal Sensitization: a skin sensitizer

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. This pesticide is toxic to fish, aquatic invertebrates, small mammals, and birds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Chlorpyrifos		0.002 - 0.032: 96 h Oncorhynchus	0.00012 - 0.00023: 48 h Daphnia
2921-88-2		mykiss mg/L LC50 flow-through	magna mg/L EC50 Static 0.00009 -
		0.011: 96 h Oncorhynchus mykiss	0.00012: 48 h Daphnia magna mg/L
		mg/L LC50 0.11 - 0.13: 96 h	EC50 Flow through
		Pimephales promelas mg/L LC50	
		flow-through 0.00717: 96 h Poecilia	
		reticulata mg/L LC50 0.00717: 96 h	
		Poecilia reticulata mg/L LC50 semi-	
		static 0.001: 96 h Oncorhynchus	
		mykiss mg/L LC50 static 0.0026: 96	
		h Lepomis macrochirus mg/L LC50	
		0.008: 96 h Cyprinus carpio mg/L	
		LC50 static 0.0047 - 0.0075: 96 h	
		Lepomis macrochirus mg/L LC50	
		flow-through 0.0013: 96 h Lepomis	
		macrochirus mg/L LC50 static	
Naphtha (petroleum), heavy	2.5: 72 h Skeletonema costatum	1740: 96 h Lepomis macrochirus	0.95: 48 h Daphnia magna mg/L
aromatic	mg/L EC50	mg/L LC50 static 41: 96 h	EC50
64742-94-5		Pimephales promelas mg/L LC50	
		2.34: 96 h Oncorhynchus mykiss	
		mg/L LC50 19: 96 h Pimephales	
		promelas mg/L LC50 static 45: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through	
Naphthalene	0.4: 72 h Skeletonema costatum	1.99: 96 h Pimephales promelas	1.09 - 3.4: 48 h Daphnia magna
91-20-3	mg/L EC50	mg/L LC50 static 31.0265: 96 h	mg/L EC50 Static 1.96: 48 h
		Lepomis macrochirus mg/L LC50	Daphnia magna mg/L EC50 Flow
		static 1.6: 96 h Oncorhynchus	through 2.16: 48 h Daphnia magna
		mykiss mg/L LC50 flow-through	mg/L LC50
		0.91 - 2.82: 96 h Oncorhynchus	
		mykiss mg/L LC50 static 5.74 - 6.44:	
		96 h Pimephales promelas mg/L	
		LC50 flow-through	

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

<u>Mobility</u>

Chemical name	Partition coefficient
Chlorpyrifos	4.96
2921-88-2	
Naphtha (petroleum), heavy aromatic	2.9 - 6.1
64742-94-5	
Naphthalene	3.6
91-20-3	

Other Adverse Effects Not determined

Waste Treatment Methods Disposal of Wastes END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or Hazardous Waste representative at the nearest EPA regional office. Never place any unused product down an indoor or outdoor drain. Do not contaminate water, food or feed by disposal. Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations. DT UN3018 Proper Shipping Name Organophosphorus pesticide, liquid, toxic (chlorpyrifos) Hazard class 6.1 Packing Group III WN number UN3018 Proper Shipping Name Organophosphorus pesticide, liquid, toxic (chlorpyrifos) fraapport hazard class(es) 6.1 Packing Group III Marine Pollutant Yes IMDG UN3018 Proper Shipping Name Organophosphorus pesticide, liquid, toxic (chlorpyrifos 42.5%) Fransport hazard class(es) 6.1 Packing Group III Marine Pollutant Yes UN101No UN3018		13. DISPOSAL CONSIDERATIONS
RECOMMENDATIONS. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or Hazardous Wast representative at the nearest EPA regional office. Never place any unused representative at the nearest EPA regional office. Never place any unused product down an indoor or outdoor drain. Do not contaminate water, food or feed by disposal. Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations. DOT UNID No UN3018 Proper Shipping Name Organophosphorus pesticide, liquid, toxic (chlorpyrifos) Hazard class 6.1 Packing Group III Reportable Quantity (RQ) 1 lb Marine Pollutant Yes IM number UN3018 Proper Shipping Name Organophosphorus pesticide, liquid, toxic (chlorpyrifos) Transport hazard class(es) 6.1 Packing Group III MDG UN3018 Proper Shipping Name Organophosphorus pesticide, liquid, toxic (chlorpyrifos 42.5%) Transport hazard class(es) 6.1 Proper Shipping Name Organophosphorus pesticide, liquid, toxic (chlorpyrifos 42.5%) Transport hazard class	Waste Treatment Methods	
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Marine Pollutant Yes 15. REGULATORY INFORMATION	UN/ID No Proper Shipping Name Hazard class Packing Group	Organophosphorus pesticide, liquid, toxic (chlorpyrifos) 6.1 III Yes

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Chlorpyrifos	Х	Х	Х	Х	Х	Х	Х	Х
Naphtha (petroleum), heavy aromatic	Х	X	Х		Х	Х	Х	Х
Naphthalene	Х	Х	Х	Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA Not applicable

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SARA 313 Not applicable

CWA (Clean Water Act)

Not applicable

US State Regulations

U.S. State Right-to-Know Regulations

Not applicable

Pesticide Registration Number Pest Control Product Reg. No. 23705

Product Statement

This chemical is a product registered by the Canadian Pest Control Products Act and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. Read the approved label, authorized under the Pest Control Products Act, prior to using or handling the pest control product. Following is the hazard information as required on the pesticide label:

Pesticide Label

Danger Poison Eye and Skin Irritant Potential Skin Sensitizer

Difference between SDS and pesticide label

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Signal Word	Danger	Danger
Acute toxicity - Oral	N/A	Toxic if swallowed
Acute toxicity - Inhalation		
(Dusts/Mists)	N/A	Harmful if inhaled
Skin corrosion/irritation	Skin irritant	Causes skin irritation
Serious eye damage/eye irritation	Eye irritant	Causes serious eye irritation
Skin sensitization		May cause an allergic skin
	Potential skin sensitizer	reaction
Carcinogenicity	N/A	Suspected of causing cancer
Aspiration toxicity		May be fatal if swallowed and
	N/A	enters airways

16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 2	Instability 1	Special Hazards Not determined	
HMIS_	Health Hazards	Flammability	Physical hazards	Personal Protection	
	Not determined	Not determined	Not determined	Not determined	
Issue Date:	21-Nov-2018				
Revision Date:	27-Nov-2018				
Revision Note:	New for	mat			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet