

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

## **Pyrinex 250 CS**

Revision Date 20-May-2014

Version 1

Product No INS00008-27

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R-6850.EU / MCW-3031

## **Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

### 1.1. Product identifier

## **Pyrinex 250 CS**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Insecticide
Uses advised against	No information available

### 1.3. Details of the supplier of the safety data sheet

Supplier Address	ADAMA SOUTH AFRICA (PTY) LTD 21 Viben Street Brankenfell 7560
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For further information, please contact

Email address	msds@mcw.co.il
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### 1.4. Emergency telephone number

Emergency Telephone	+ 27 82 331 6463 + 27 21 982 1460
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## **Section 2: HAZARD IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Classification of the product is based on the coformulants listed in section 3  
R43 - N;R50-53

Full text of R-phrases: see section 16

### 2.2. Label elements

The product is classified and labeled in accordance with Directive 1999/45/EC



Hazard symbols

Xi - Irritant  
N - Dangerous for the environment

<b>R-Phrases</b>	R43 - May cause sensitization by skin contact R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
<b>S phrases</b>	S2 - Keep out of the reach of children S24 - Avoid contact with skin S28 - After contact with skin, wash immediately with plenty of soap and water S36/37 - Wear suitable protective clothing and gloves S60 - This material and its container must be disposed of as hazardous waste

### 2.3. Other hazards Other Information

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification according to 67/548/EEC	REACH Registration Number
Chlorpyrifos	22 - 25	2921-88-2	220-864-4	015-084-00-4	Acute Tox. 3 (H301) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	T; R25 N; R50-53	-
Polyalkyleneoxide modified Heptamethyltrisiloxane	1 - 2	27306-78-1	-	-	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	Xn;R20 Xi;R36 N; R51/53	-
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	>0.1	52829-07-9	258-207-9	-	Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	Xi; R36 N; R51-53	-

Full text of R-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider** Use personal protective equipment as required.

#### **4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** None known

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### **Section 5: FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable Extinguishing Media**

No information available.

#### **5.2. Special hazards arising from the substance or mixture**

No specific hazard known.

#### **5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus

In the event of fire and/or explosion do not breathe fumes

### **Section 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **Personal precautions**

Use personal protective equipment as required. Avoid contact with eyes and skin.

##### **For emergency responders**

Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

#### **6.3. Methods and material for containment and cleaning up**

##### **Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

#### **6.4. Reference to other sections**

##### **Other Information**

See also section 8,13

### **Section 7: HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

**Advice on safe handling**

Use personal protective equipment as required. Use only with adequate ventilation.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.

**7.3. Specific end use(s)****Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Chlorpyrifos 2921-88-2		STEL: 0.6 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> Skin	TWA: 0.2 mg/m <sup>3</sup>	S* TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Chlorpyrifos 2921-88-2		TWA: 0.1 mg/m <sup>3</sup>		TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> Skin	TWA: 0.2 mg/m <sup>3</sup> Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Chlorpyrifos 2921-88-2	Skin STEL 0.4 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>	Skin TWA: 0.2 mg/m <sup>3</sup>	NDSch: 0.6 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> Skin	TWA: 0.2 mg/m <sup>3</sup> Skin STEL: 0.6 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> Skin

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Body Protection** Suitable protective clothing.

**General Hygiene Considerations** When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		

<b>Color</b>	:	light yellow		
<b>Odor</b>	:	Odorless		
<b>Odor threshold</b>	:	No data available		
<b>pH</b>	:	7.0 - 8.5	CIPAC MT 75.2	solution (1 %)
<b>Melting point/freezing point °C</b>	:	No data available		
<b>Boiling point/boiling range °C</b>	:	No data available		
<b>Flash point °C</b>	:	No data available	EEC A.9	aqueous solution
<b>Evaporation rate</b>	:	Not Applicable		
<b>Flammability (solid, gas)</b>	:	Not Applicable		
<b>Upper/lower flammability or explosive limits</b>	:	No data available		
<b>Vapor pressure kPa</b>	:	No data available		
<b>Vapor density</b>	:	No data available		
<b>Relative density</b>	:	1.08 - 1.10	CIPAC MT 3.3.2	
<b>Solubility(ies) mg/l</b>	:	No data available		
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:			See Section 12 for more information
<b>Autoignition temperature °C</b>	:	595	EEC A.15	
<b>Decomposition temperature °C</b>	:	No data available		
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	:	22.7 - 186.4	OECD 114	
<b>Explosive properties</b>	:	Not an explosive		
<b>Oxidizing properties</b>	:	No		
<b>9.2. Other information</b>				
<b>Bulk density g/ml</b>	:			Not Applicable
<b>Surface tension mN/m</b>	:	Not Applicable		
<b>Minimum ignition energy (MIE) mJ</b>	:			

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Not available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

No information available

### 10.6. Hazardous decomposition products

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2000	Rat	OECD 401	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	:			Not Applicable
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not classified	Rabbit	OECD 405	
Respiratory/skin sensitization	: Skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity****Chemical Name**

Chlorpyrifos : Not classified

**Carcinogenicity****Chemical Name**

Chlorpyrifos : Not Carcinogenic

**Reproductive toxicity****Chemical Name**

Chlorpyrifos : Not toxic for the reproductive system

**STOT - single exposure****Chemical Name**

Chlorpyrifos : No information available

**STOT - repeated exposure****Chemical Name**

Chlorpyrifos : No information available

**Aspiration hazard****Chemical Name**

Chlorpyrifos : No information available

**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Aquatic toxicity				
Fish 96-hour LC50 mg/l	: 110	Rainbow trout	OECD 203	
Crustacea 48-hour EC50 mg/l	: 0.000175	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	:			Not available
Other plants EC50 mg/l	:			Not available

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical Name**

Chlorpyrifos : 476

**Bees Oral LD50 µg/bee****Chemical Name**

Chlorpyrifos : 0.25

**12.2. Persistence and degradability**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Abiotic Degradation			
Water DT50 days			

**Chemical Name**

Chlorpyrifos : 16 - 35 pH 7; 25 ° C

**Soil DT50 days****Chemical Name**

Chlorpyrifos : 13 - 22

**Biodegradation****Chemical Name**

Chlorpyrifos : Not readily biodegradable

**12.3. Bioaccumulative potential****Partition Coefficient  
(n-octanol/water) Log Pow****Chemical Name**

Chlorpyrifos : 4.76 OECD 107

**Bioconcentration factor (BCF)****Chemical Name**

Chlorpyrifos : 1374 No bioaccumulation potential

**12.4. Mobility in soil****Adsorption/Desorption****Chemical Name**

Chlorpyrifos : 2785 - 31000 OECD 106 Koc

**12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB

**12.6. Other adverse effects**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORTATION INFORMATION****IMDG/IMO**

14.1 UN/ID No 3082  
 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Chlorpyrifos )  
 14.3 Hazard Class 9  
 14.4 Packing Group III  
 14.5 Marine pollutant Yes  
 14.6 Special precautions for user

**RID/ADR**

14.1 UN/ID No	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Chlorpyrifos )
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	

**ICAO/IATA**

14.1 UN/ID No	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Chlorpyrifos )
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Applicable



## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

## Section 16: OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R20 - Harmful by inhalation  
 R25 - Toxic if swallowed  
 R36 - Irritating to eyes  
 R43 - May cause sensitization by skin contact  
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Revision Date** 20-May-2014

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### **Disclaimer**

The information provided in this Material 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.



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End of Safety Data Sheet