

# SAFETY DATA SHEET

6/5/03

---

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

STARTADDR

Dow AgroSciences Limited	Latchmore Court Brand Street Hitchin Herts SG5 1NH
--------------------------	---

Emergency Telephone Number:	UK: 0870 600 2999
	Eire: 01 821 4999

Poisons Information Centre:	UK: 0121 507 5588/5589
	Eire: 01 837 9964/66

ENDADDR

Product Name: **CROSSFIRE\* 480 INSECTICIDE : MAFF 08141, 09929**

LV70: 51485	Issue Date: Sept. 85	Ref: H8418
Revised: May 03 (Section(s) 14)		

---

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Dangerous components (see section 16 for complete R-phrases):**

			CAS	EC No
Chlorpyrifos	480 g/L	T,N; R25-50/53	002921-88-2	220-864-4
Solvent plus inert ingredients	Balance			

Composition Code EF1042

---

**3. HAZARDS IDENTIFICATION**

Flammable.  
 Harmful in contact with skin and if swallowed.  
 Harmful: may cause lung damage if swallowed.  
 Irritating to skin.  
 Extremely dangerous to fish or other aquatic life.  
 Dangerous to bees.

---

\* CROSSFIRE Trademark of Dow AgroSciences

# SAFETY DATA SHEET

6/5/03

CROSSFIRE\* 480 INSECTICIDE : MAFF 08141, 09929

---

## 4. FIRST-AID MEASURES

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

### Ingestion

Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. The decision of whether to induce vomiting or not should be made by a physician.

### Eye Contact

Irrigate immediately with water for at least 5 minutes. Consult medical personnel.

### Skin Contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Wash contaminated clothing before reuse.

### Inhalation

Remove to fresh air. Consult a physician.

### Note to Physician

This material contains both a cholinesterase inhibitor and a solvent. Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PA M/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

---

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

Water fog or fine spray. Carbon dioxide. Dry chemical fire extinguishers. Foam.

### Hazardous Combustion Products

Hydrogen chloride. Sulphur oxides. Nitrogen oxides. Dependent on the intensity of the fire.

### Protection of Firefighters

Wear protective clothing and use self-contained breathing apparatus.

### Additional Information

Rapid decomposition occurs above 160 deg.C. Closed containers may explode due to pressure build-up when subjected to excessive heat or intense fire. Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

# SAFETY DATA SHEET

6/5/03

CROSSFIRE\* 480 INSECTICIDE : MAFF 08141, 09929

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Wear appropriate safety clothing and eye/face protection (see Section 8).

### Environmental Precautions

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

### Methods of Cleaning Up

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

### Additional Information

Eliminate all ignition sources.

---

## 7. HANDLING AND STORAGE

### Handling

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid eye and skin contact.

### Storage

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chlorpyrifos: Dow AgroSciences IHG is 0.2 mg/m<sup>3</sup> (skin).  
Supplier recommendation for solvent is 100 ppm

### Engineering Controls

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

### Respiratory Protection

When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.  
For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

# SAFETY DATA SHEET

6/5/03

CROSSFIRE\* 480 INSECTICIDE : MAFF 08141, 09929

---

**Hand/Skin Protection**

Use protective clothing impervious to this material. Selection of specific items will depend on operation.

**Eye/Face Protection**

Use safety glasses. Where contact with the liquid is likely, chemical goggles are recommended.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: clear liquid
Colour	: amber
Rel. density (water=1)	: 1.08 g/cm <sup>3</sup> (approx.)
Water solubility	: emulsifiable
Freezing point/range	: <-5 deg.C
Flash point	: 50-52 deg.C (PMCC)

---

**10. STABILITY AND REACTIVITY****Chemical Stability**

Is stable under normal storage conditions.

**Conditions to Avoid**

Avoid extremes of temperature. Rapid decomposition occurs above 160 deg.C. Product undergoes exothermic decomposition which can lead to high temperatures and violent decomposition if heat developed is not removed.

**Materials to Avoid**

Strong basic, acidic or oxidising materials.

**Hazardous Decomposition Products**

None under normal conditions of storage and use.

---

**11. TOXICOLOGICAL INFORMATION****Ingestion**

Moderate toxicity if swallowed.  
The oral LD50 for rats is 316 mg/kg.

**Skin Contact**

The dermal LD50 for rats is >2000mg/kg.  
Prolonged skin contact is unlikely to result in absorption of harmful amounts.  
Short single exposure may cause skin irritation.

**Sensitisation**

Non-sensitising to guinea pig skin.

# SAFETY DATA SHEET

6/5/03

CROSSFIRE\* 480 INSECTICIDE : MAFF 08141, 09929

---

**Eye Contact**

May cause moderate eye irritation.

**Inhalation**

No adverse effects anticipated by this route of exposure incidental to proper handling.

**Other Information**

Excessive exposure may cause organophosphate type cholinesterase inhibition.

---

**12. ECOLOGICAL INFORMATION**

Assessment largely or completely based on data for active ingredient.

**Persistence and Degradability**

Does not leach in soils and is therefore unlikely to contaminate ground water. Half-life in soils is dependent on soil type and conditions and is approximately 60 days.

**Aquatic Toxicity**

Material is very highly toxic to fish on an acute basis (LC50 <0.1mg/L).

Material is very highly toxic to aquatic invertebrates on an acute basis (LC50 <0.1mg/L).

**Avian Toxicity**

Material is moderately toxic to birds on an acute basis (50mg/kg <LD50 <500mg/kg).

**Other Information**

Toxic to bees.

---

**13. DISPOSAL CONSIDERATIONS**

Extremely dangerous to fish or other aquatic life. Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

# SAFETY DATA SHEET

6/5/03

CROSSFIRE\* 480 INSECTICIDE : MAFF 08141, 09929

---

## 14. TRANSPORT INFORMATION

### Road & Rail

Proper shipping name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE,  
(Chlorpyrifos 48% and Petroleum Distillate)  
Truck/Rail ADR/RID : 6.1 Label : < >  
Classification Code : TF2  
Packing Group : III  
Kemler Code : 63 UN Number : 3017  
Tremcard Nr. CEFIC : 61GTF2-II

### Sea

Proper shipping name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE,  
(Chlorpyrifos 48% and Petroleum Distillate)  
Sea - IMO/IMDG Class: 6.1 UN Nr : 3017 Label: 6 + 3  
Packing Group : III EMS : 6.1-01  
Marine Pollutant : Y (Y/N)

### Air

Proper shipping name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE,  
(Chlorpyrifos 48% and Petroleum Distillate)  
Air-ICAO/IATA Class : 6.1 UN Nr : 3017 Label: 6.1 + 3  
Sub Class : 3  
Packing Group : III Pack Instr. Passenger : 611  
Pack Instr. Cargo : 618

**Remarks** : Sample shipment not allowed by mail.

---

## 15. REGULATORY INFORMATION

**Hazard Symbol** : Xn - Harmful

**Risk Phrases** : Flammable (R10).  
Harmful in contact with skin and if swallowed (R21/22).  
.  
Harmful: may cause lung damage if swallowed (R65).  
Irritating to skin (R38).

# SAFETY DATA SHEET

6/5/03

CROSSFIRE\* 480 INSECTICIDE : MAFF 08141, 09929

---

**Safety Phrases :** Keep out of reach of children (S2).  
Keep away from food, drink and animal feeding stuffs (S13).  
When using do not eat, drink or smoke (S20/21).  
Do not breathe spray (S23).  
Wear suitable protective clothing and gloves (S36/37)  
.  
If you feel unwell, seek medical advice (Show the label where possible) (S44).  
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label (S62).

---

## 16. OTHER INFORMATION

---

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made.