

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND MANUFACTURER IDENTIFICATION

CHLORPYRIFOS 480G/L EC

SUPPLIER NAME:	Shandong Weifang Rainbow Chemical Co., Ltd.
SUPPLIER ADDRESS:	Binhai Economic Development Area, Weifang, Shandong 262737, China
SUPPLIER PHONE:	+86-531-88875230, 88875231
SUPPLIER FAX:	+86-531-88875232, 88875224
CHEMICAL NAME:	O,O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate
CAS NUMBER:	2921-88-2
MOLECULAR FORMULA:	C ₉ H ₁₁ Cl ₃ NO ₃ PS
MOLECULAR WEIGHT:	350.59
CHEMICAL FAMILY:	Organo-phosphate
USE:	Insecticide

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHLORPYRIFOS	480G/L
OTHER NON HAZARDOUS INGREDIENTS	Up to 1L

3. HAZARDS IDENTIFICATION

MAIN HAZARDS: Flammable. Harmful in contact with skin and if swallowed. Irritating to skin.

HARMFUL: may cause lung damage if swallowed.

4. FIRST - AID MEASURES

EFFECT AND SYMPTOMS:

Exposure may result in excessive sweating, weakness, salivation, nausea, bradycardia, tachycardia, bronchorrhea, cough, bronchospasm, lung oedema, small pupils. Central nervous depression, fasciculation and convulsions, headache, faintness and giddiness.

INHALATION: may result in systemic poisoning

INGESTION: may result in systemic poisoning

SKIN CONTACT: may result in systemic poisoning

EYE CONTACT: redness, tears

FIRST AID MEASURES:

INHALATION: remove victim to fresh air. Keep victim warm and at rest.

IF BREATHING IS DIFFICULT: give oxygen.

IF NOT BREATHING: apply artificial respiration. Immediately get medical attention.

INGESTION: induce vomiting only if victim is conscious. Never give anything by mouth to an unconscious person. Wash out mouth with water.

SKIN CONTACT: remove contaminated clothing. Wash off with plenty of water and soap. Get medical attention.

EYE CONTACT: wash off with plenty of water for at least 15 minutes. Immediately consult an eye specialist.

NOTES TO A PHYSICIAN:

Antidote 1: atropine sulfate

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

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EXTINGUISHING MEDIA: Product is flammable. If product is involved in a fire, use water spray, foam, dry powder, carbon dioxide or sand.

UNSUITABLE EXTINGUISHING MEDIA: None.

SPECIAL EXPOSURE HAZARDS: May give off toxic fumes if burnt.

PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING: Do not breathe fumes. Wear self contained breathing apparatus.

FIRE FIGHTING GUIDANCE: If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: use appropriate protection (see section 8). During cleaning activity, shut off ignition sources.

ENVIRONMENTAL PRECAUTIONS:

dispose of this material and its container at hazardous or special waste collection point. In accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.

METHODS FOR CLEANING UP:

in the event of minor spillage: absorb in sand or other inert material. Use appropriate containment to avoid environmental.

IN THE EVENT OF MAJOR SPILLAGE:

collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

7. HANDLING AND STORAGE

HANDLING:

No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Section 8 if exposure to product is possible. Wash thoroughly with soap and water after handling and before eating, drinking or smoking.

STORAGE:

Store in original packs/containers in a dry secure area designated for pesticides with access for authorised staff only. Store away from seeds, fertilizers and animal feedstuffs.

TECHNICAL STORAGE MEASURES: Keep all ignition sources and sources of heat away.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES:

Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Hygiene measures: Wash hands thoroughly after handling. Wash clothing separately before re-use.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY SYSTEM: During spraying wear suitable respiratory equipment

SKIN AND BODY: Wear suitable protective clothing

HANDS: Wear suitable gloves

EYES: Safety goggles or face shield

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOUR: Brownish yellow

ODOUR: Characteristic

FLASH POINT: 72°C

SOLUBILITY IN WATER: Emulsifies

DENSITY: 1.10 g/ml at 20°C

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10. STABILITY AND REACTIVITY

STABILITY:	Stable at ambient conditions
CONDITIONS TO AVOID:	Sources of ignition
MATERIALS TO AVOID:	Acids. Alkalis. Oxidising agents

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD ₅₀ :	723.2 mg/kg
ACUTE DERMAL LD ₅₀ :	> 4000 mg/kg
ACUTE INHALATION LC ₅₀ :	0.6 mg/l
EYE IRRITATION:	Moderately irritant for the rabbits' eyes
SKIN IRRITATION:	Practically non-irritant for the rabbits' skin
SENSITISATION:	Not sensitizing to skin

12. ECOLOGICAL INFORMATION

BIO-ACCUMULATION: Data given in this section are for the active ingredient: Log P = 4.7.

AQUATIC TOXICITY: Data given in this section are for the active ingredient: 96 hr LC₅₀ rainbow trout 0.003 mg/l, roach 0.25 mg/l, 48 hr EC₅₀ daphnia 1.7 microgram/l.

OTHER TOXICITY: Data given in this section are for the active ingredient: Acute oral LD₅₀ chickens 32 to 102 mg/kg. Toxic to the following species; bees.

13. DISPOSAL CONSIDERATIONS

METHODS OF DISPOSAL: Disposal according to the local legislation.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

UN PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorpyrifos)

UN CLASS: 9

UN PACAGING GROUP: III

15. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

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