

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

CHLORPYRIFOS 500G/L + CYPERMETHRIN 50G/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
ACTIVE INGREDIENT: Chlorpyrifos and Cypermethrin
CHEMICAL NAME: O, O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate and (RS)- α -cyano-3-phenoxybenzyl (1RS)-cis-trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
CAS NUMBER: 2921-88-2 and 52315-07-8
MOLECULAR WEIGHT: C₉H₁₁Cl₃NO₃PS and C₂₂H₁₉Cl₂NO₃
MOLECULAR WEIGHT: 350.59 and 416.3
USE: Insecticide

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chlorpyrifos	500g/L
Cypermethrin	50g/L
Other ingredients	Up to 1L

3. HAZARDS IDENTIFICATION

Acute exposure effect: High vapour concentration may cause headache, necrosis and irritation to mucous membrane. Ingestion can be fatal.

4. FIRST - AID MEASURES

Inhalation: Assure fresh air breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention if breathing difficulty persists.

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: Rinse immediately with plenty of water. Obtain emergency medical attention if pain, blinking, tears or redness persist.

Ingestion: Rinse mouth. DO NOT INDUCE VOMITING. Seek medical attention immediately.

Note to physician: Antidote as for organophosphate poisoning.

5. FIRE FIGHTING MEASURES

Prevention: Keep away from sources of ignition. No smoking.

Extinguishing media: Dry chemical. Water. Carbon dioxide. Foam.

Not to be used: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

Special exposure hazards: May form flammable vapour-air mixture. When exposed to heat, may decompose liberating hazardous gases. Carbon monoxide. Carbon dioxide. Halogens. Nitrogen oxides. Sulfur compounds. Phosphate.

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.

Personal precautions: The driver shall not attempt to deal with any fire of the load.

6. ACCIDENTAL RELEASE MEASURES

Spills: Steps to be taken: Stop leak, if safe to do so. Contain spillage. Absorb in sawdust or sand or disposal. Eliminate sources of ignition. Use

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personal protective equipment. Stay upwind. Cordon off the area.

Waste Disposal method: Local regulations should be adhered to. Incineration in controlled furnace. Destroy the empty containers in a safe and authorized place. If burnt avoid inhalation of smoke (if burning permitted). Never re-use empty packs.

7. HANDLING AND STORAGE

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. May form flammable/explosive vapour-air mixture.

Technical protective measures: Use grounded electrical/mechanical equipment.

Storage: Keep in fireproof place. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.

Handling: 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Respiratory protection: respirator with P2 filter.

Eye protection: safety glasses, face-shield.

Hand protection: protective gloves.

Skin and body protection: protective suit.

Hygiene measures: Wash hands and face before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Avoid contact with skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid

COLOR: Brown

WATER SOLUBILITY: Emulsifiable

DENSITY: 1.15g/cm³

VISCOSITY: The product is a free flowing liquid

CORROSIVENESS: Non-corrosive

10. STABILITY AND REACTIVITY

Chemical stability: Stable at normal condition.

Incompatible with other material: Strong oxidizers

Reactivity: None

Hazardous reaction product: None

11. TOXICOLOGICAL INFORMATION

Oral: 7180 mg/kg (rat)

Dermal: > 4920 mg/kg (rat)

Inhalation: > 2.50 mg/a.i./l (4 hr) (rat).

Eye contact: Slight eye irritant (rabbit)

Skin contact: Slight skin irritant (rabbit)

Skin sensitization: A weak sensitizer (guinea pig)

Mutagenic potential: Non mutagenic

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Teratogenicity potential: Non teratogenic

Carcinogenicity: Non carcinogenic

Acceptable Daily Intake (ADI): 0.05 mg/kg b.w.

12. ECOLOGICAL INFORMATION

Bees: 24 h LD 50 (oral) 0.035g/bee; (topical) 0.02g/bee.

Birds: Acute oral LD 50 for mallard duck: > 10000 mg/kg, chickens >2000 mg/kg.

Fish: LC 50 (96 hr) for carp: 0.61mg/l, Rainbow trout: 0.69 mg/l

13. DISPOSAL CONSIDERATIONS

Never re-use the empty containers

Destroy and bury in a safe place

Dispose off packages or surplus material in a safe manner to prevent environmental and water pollution

14. TRANSPORT INFORMATION

Not applicable

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.