

MATERIAL SAFETY DATA SHEET

CHLORPYRIFOS 20% EC

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY UNDERTAKING

Product Chlorpyrifos 20% EC
Company BR Agrotech Limited
SIDCO Industrial Area
Kathua -184101 (J&K)
Emergency No. 0186-3292134

2. COMPOSITION/INFORMATION ON INDREDIENTS

Chemical Characterization 20.0% Chlorpyrifos
75.0% Aromatic Solvent
5.0% Surfactant
Hazardous Component O,O- diethyl O-93,5,6-trichloro-2-pyridinyl) phosphorothioate
CAS Registry No. 002921-88-2 (Chlorpyrifos)
64742-95-6 (Aromatic Solvent)

3. HARARDS IDENTIFICATION

Skin Cutaneous paresthesias may occur including numbness, itching, tingling and warmth
Eye Mild irritant.
Inhalation May cause, after heavy exposure, hypersensitivity, ataxia, and urinary incontinence
Ingestion May cause hypersensitivity, ataxia, and urinary incontinence
Physical/ Chemical Effect Flammable product.
Environmental Effect Toxic to aquatic organism.

4. FIRST AID MEASURES

Skin Contact	Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15-20 min.). Get medical attention, if irritation persists
Eye contact	Rinse immediately with plenty of water and seek medical advice
Inhalation	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately
Ingestion	Do not induce vomiting. Remove by gastric lavage and catharsis. Give oxygen if respiration is depressed. Do Not perform gastric lavage if victim is unconscious. Get medical attention immediately
Other information	Treat symptomatically and supportively

5. FIRE-FIGHTING MEASURE

Extinguisher media	Dry chemical, carbon dioxide, halon, water spray or standard foam
Unsuitable extinguisher	High-pressure water jet media
Special exposure hazards	Do not release chemically contaminated water into drain. Soil and surface water
Special protective	As for fires involving chemicals, chemical protection suit, suitable gloves, equipment for fire fighters and boots and self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precaution	Use personal protective equipment
Method for cleaning up	Do not touch spilled material. Stop leak if you can do it without risk. For small spill, take up sand or other absorbent material and place into containers for later disposal. Move containers from spill area. For larger spills, like far ahead of spill for latter disposable. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed space
Environmental Precaution	Prevent contamination of water

7. HANDLING AND STORAGE

Handling precaution	Keep product in original tightly closed container, avoid exposure by inhalation. Do not get on skin, eye or clothing, do not eat, drink or smoke when handling, wash hands before drinking or smoking
Storage	Store in locked, well-ventilated storeroom, away from children and unauthorized personnel and food and animals

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation	Provide local exhaust or general dilution ventilation.
Respiratory protection	Wear a suitable mask
Hand protection	Wear rubber or plastic gloves
Eye protection	Wear splash-proof or dust-resistant safety goggles.
Skin and body protection	Wear overalls and closed footwear.

9. STABILITY AND REACTIVITY

Stability	Stable under normal temp. and pressure.
Condition to avoid	Avoid temperature above 122° F (50°C). Chlorpyrifos decomposes at elevated temperature. Generation of gas during decomposition can cause pressure in closed system
Material to avoid	Strong oxidizing agent and bases
Hazardous decomposition	Thermal decomposition products may emit toxic fumes of hydrogen chloride, organic sulfides and sulfur dioxides .

10. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Colour	Yellow
Odour	Solvent odour
Melting Point	N/A
Flash Point	>24.5°C
Flammability	Flammable
Auto Ignition	N/A
Oxidizing properties	None
Vapor Pressure	—
Density	0.97 at 20°C
Water Solubility	Emulsifies in water

11. TOXICOLOGICAL INFORMATION

Acute LD ₅₀ oral rats	5000 mg/kg
Acute LD ₅₀ dermal	>2000 mg/kg
Eye irritation rabbits	No irritant
Skin irritation rabbits	non irritant for albino rabbits
Carcinogen status	not carcinogenic
Mutagenicity	Have minimal mutagenic potential.

12. DISPOSABLE CONSIDERATIONS

Pesticides disposable	Burn in high temp. incinerator with effluent scrubbing or bury in specially designated landfill. Always dispose on in accordance with local regulations.
Container disposal	Contaminated packaging material should be treated as the product

13. TRANSPORT INFORMATION

UN No	3082
Class	9
Packing group	III
Proper shipping name	RQ Environmentally Hazardous Substance, Liquid, NOS (Chlorpyrifos)

14. REGULATORY INFORMATION

Hazard symbol	The harmful symbol (X _n) The dangerous for the environment symbol
Risk phrases	R10- Flammable R22- Harmful if swallowed R43- May cause sensitization by skin contact R51/53 - Toxic to aquatic organism, may cause long-term adverse
Safety phrases	S2/13- Keep out of reach of children, away from food, drink and animal feeding stuff S20/21- When using do not eat, drink or smoke. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection S29/56- Do not empty into drains, dispose of this material and its container at Hazardous or special waste collection point. S62- If swallowed, do not induce vomiting, seek medical advice immediately and show this container or labels.