

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name : Chlorpyrifos 50% + Cypermethrin 5% EC

Common Name : **Chlorpyrifos** : Chlorpyrifos

Cypermethrin: Cypermethrin

IUPAC Name : **Chlorpyrifos** : O,O-diethyl O-3,5,6-trichloro-2-pyridyl

phosphorothioate

Cypermethrin: (RS)-α-cyano-3-phenoxybenzyl (1RS, 3RS;

1RS,3SR)-3- (2,2-dichlorovinyl)-=2,2-dimethylcyclopropanecarboxylate

Chemical : **Chlorpyrifos** : O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl)

Abstracts Name phosphorothioate

Cypermethrin: cyano (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)=2,2-dimethylcyclopropanecarboxylate

CAS No. : **Chlorpyrifos** : [2921-88-2]

Cypermethrin: [52315-07-8]

Chemical formula : **Chlorpyrifos** : C₉H₁₁Cl₃NO₃PS

Cypermethrin: C₂₂H₁₉Cl₂NO₃

Molecular weight : **Chlorpyrifos :** 350.6

Cypermethrin: 416.3

Chemical Family : **Chlorpyrifos**: Organophosphate

Cypermethrin: Pyrethroid

Use : Chlorpyrifos : Insecticide

Cypermethrin: Insecticide

Company Name : Sevrin Chemicals Pvt. Ltd



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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Content % (w/w)
Chlorpyrifos a.i.	[2921-88-2]	50.00
Cypermethrin a.i.	[52315-07-8]	05.00
Other	-	45.00

3. HAZARDS IDENTIFICATION

Health Hazards

: Organophosphate works by damaging an enzyme in the body called acetylcholinesterase. This enzyme is critical for controlling nerve signals in the body. The damage to this enzyme kills pests and may cause unwanted side effects in exposed humans. .

Extraordinary absorbed doses may rarely cause headache, dizziness, weakness, diarrhea, nausea and vomiting, salivation, watery eyes, and small pupils. Severe symptoms are seizures, slow pulse, difficulty breathing, and coma.

Synthetic pyrethroids can produce paresthesias. Typically symptoms begin several hours after cutaneous exposure, peaks within about 12 hours and resolves within about 12 hours. Extraordinary absorbed



doses may rarely cause tremor, hyper-excitability, uncoordinated movements, salivation, nausea and vomiting & diarrhea.

Emergency: Warning! Keep out of reach of children. Toxic if

swallowed and by inhalation.

Skin and Eyes : Avoid contact with skin and eyes.

Entry route : Ingestion, Inhalation, Contact with eye or skin.

Symptoms of poisoning: Confusion, anxiety, loss of memory, loss of appetite,

disorientation, depression, and personality changes. Other symptoms such as weakness, headache, diarrhea,

nausea and vomiting also may occur.

4. FIRST AID MEASURES

Ingestion : DO NOT induce vomiting. Rinse any residual product

from mouth and lips. Give water to drink and seek

medical advice.

Eye : Immediately flush eyes with running water until

product is removed. Seek medical advice if irritation

persists.

Skin: Remove contaminated clothing. Wash thoroughly

under running water using a mild soap to remove all products. Seek medical advice if irritation, reddening

and/or other damage occurs.

Inhalation : Remove victim from exposure. Keep at rest until fully

recovered. Seek medical advice if effects persist.

Advice to Physician : No specific Antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Specific Hazard: There is no risk of an explosion from this product

under normal circumstances if involved in a fire.

Extinguishing Media : Extinguish fire using media suited to burning material.

If containers are ruptured contain all runoff. CO2, Foam or dry chemical are preferred. Soft stream water



fog or fine water sprays if no alternatives. Contain all runoff.

Hazard From
Combustion products

: If involved in a fire, it will emit toxic and noxious fumes of oxides of carbon, nitrogen or sulfur. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke.

Protective equipment

: Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Emergency

: Isolate and post spill area. Wear cotton overalls buttoned to the neck and wrist, washable hat, elbowlength PVC gloves and eye/face protection to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourses. Contain spill and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as per regulations.

Clean up Procedures

: To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

7. HANDLING AND STORAGE

Handling

: Ensure containers are kept closed until using product. Avoid contact with eyes and skin. Wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves.

Storage

: DO NOT store near (or allow to contact) fertilizers,



fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children, animals, food, feed stuffs, seed and fertilizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls : Good general ventilation should be sufficient for most

conditions. Local exhaust ventilation may be necessary

for some operations.

Ingestion : DO NOT eat, drink or apply cosmetics, where there is

a potential for exposure to the product.

Eye Protection : Safety goggles, chemical splash goggles or face shield

for eyes protection should be used. Safety showers and

eye wash should be easily available.

Skin Protection : Chemical resistant gloves, coveralls socks, apron and

chemical resistant foot covering should always be used

while handling the product.

Respiratory protection: Always use NIOSH/MSHA approved respiratory

protection equipment with a universal filter type

including particle filter.

General Protection: Avoid contact with eyes and skin. While handling the

product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash gloves and contaminated

clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Colour : Yellow liquid **Odour** Odorless : Liquid Physical state : 1.07 g/ml **Density** Flash point 45° C

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Conditions to Avoid : Avoid direct sunlight.

Incompatible Materials : Strong oxidizing agents, bases, chlorates, nitrates.

Hazardous When heated to decompose it emits toxic fumes of decomposition products

bromide ion, cyanide ion, nitrogen oxides. Hazardous

Not a skin sensitizer

Decomposition Products: Carbon monoxide.

Hazardous Reactions : No polymerization will occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 800 mg/kg (rats) >4000 mg/kg (rabbits) **Acute Dermal LD50** $>5000 \text{ mg/m}^3 \text{ (rats)}$ **Acute Inhalation LC50** Highly irritant (rabbits) **Skin Irritation Eye Irritation** Mildly irritant (rabbits)

12. ECOLOGICAL INFORMATION

Bird Acute oral LD₅₀ for rainbow trout

(Onchorynchus mykiss) is 0.0075

mg/L

Acute LD₅₀ 0.00034 mg/L **Daphnia**

Algae EC₅₀ for green algae is 1.1 mg/L

Bees Toxic to bee

Skin Sensitization



13. DISPOSAL CONSIDERATIONS

Disposal

: This material must be disposed of as a Hazardous Waste. Disposal should be in accordance with local, nation or state rule and regulations.

Disposal of empty
Containers

: Break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

14. TRANSPORT INFORMATION

Shipping Name : ORGANOPHOSPHORUS PESTICIDES, LIQUID,

TOXIC, FLAMMABLE

UN No. : 3017
Class : 6.1
Packing group : III
Marine : Yes

pollutant

15. REGULATORY INFORMATION

Hazard symbol



Dangerous for the environment (N)

Full text of H-Statements referred to under sections 2 and

H22 - Harmful if swallowed

H38 - Irritating to eyes and skin.

H41 - Risk of serious damage to eyes



H43 - May cause sensitization by skin contact

Safety Phrase S2 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feeding stuffs

S20/21 - When using, do not eat, drink or smoke.

S26 - In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with plenty

of water and soap

S36/37/39 - Wear suitable protective clothing, gloves and

eye/face protection

S46 - If swallowed, seek medical advice immediately and

show this container or label.

S62 - If swallowed, do not induce vomiting: seek medical

advice immediately and show this container or label

16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are resented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

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