



### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	:	Chlorpyrifos 50% + Cypermethrin 5% EC		
Common Name	:	Chlorpyrifos : Chlorpyrifos		
		Cypermethrin : Cypermethrin		
IUPAC Name	:	<b>Chlorpyrifos</b> : O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate		
		<b>Cypermethrin</b> : (RS)-α-cyano-3-phenoxybenzyl (1RS, 3RS; 1RS,3SR)-3- (2,2-dichlorovinyl)-=2,2- dimethylcyclopropanecarboxylate		
Chemical Abstracts Name	:	<b>Chlorpyrifos :</b> O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate		
		<b>Cypermethrin :</b> cyano (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)=2,2-dimethylcyclopropanecarboxylate		
CAS No.	:	<b>Chlorpyrifos :</b> [2921-88-2]		
		<b>Cypermethrin :</b> [52315-07-8]		
Chemical formula	:	<b>Chlorpyrifos :</b> C <sub>9</sub> H <sub>11</sub> Cl <sub>3</sub> NO <sub>3</sub> PS		
		Cypermethrin : C <sub>22</sub> H <sub>19</sub> Cl <sub>2</sub> NO <sub>3</sub>		
Molecular weight	:	Chlorpyrifos : 350.6		
		Cypermethrin : 416.3		
Chemical Family	:	Chlorpyrifos : Organophosphate		
		Cypermethrin : Pyrethroid		
Use	:	Chlorpyrifos : Insecticide		
		Cypermethrin : Insecticide		
Company Name	:	Solas Croptech Private Limited.		

Solas Croptech Private Limited.





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2.	COMPOSITION / INFORMATION ON INGREDIENTS				
<b>Chemical Name</b> Chlorpyrifos a.i. Cypermethrin a.i. Other	CAS No. [2921-88-2] [52315-07-8] - 3. HAZARDS IDENTIFICA T	Content % (w/w) 50.00 05.00 45.00			
Health Hazards	<ul> <li>3. HAZARDS IDENTIFICATION</li> <li>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</li> </ul>				





		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				
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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				
Skin	:					
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.				
Skin Inhalation		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. Remove victim from exposure. Keep at rest until fully				
Inhalation		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. Remove victim from exposure. Keep at rest until fully recovered. Seek medical advice if effects persist.				
	:	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. Remove victim from exposure. Keep at rest until fully recovered. Seek medical advice if effects persist. No specific Antidote. Treat symptomatically.				
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Inhalation Advice to Physician Specific Hazard	:	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. Remove victim from exposure. Keep at rest until fully recovered. Seek medical advice if effects persist. No specific Antidote. Treat symptomatically. <b>FIRE FIGHTING MEASURES</b> There is no risk of an explosion from this product under normal circumstances if involved in a fire.				
Inhalation Advice to Physician	:	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. Remove victim from exposure. Keep at rest until fully recovered. Seek medical advice if effects persist. No specific Antidote. Treat symptomatically. <b>FIRE FIGHTING MEASURES</b> There is no risk of an explosion from this product under normal circumstances if involved in a fire. Extinguish fire using media suited to burning material.				
Inhalation Advice to Physician Specific Hazard	:	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. Remove victim from exposure. Keep at rest until fully recovered. Seek medical advice if effects persist. No specific Antidote. Treat symptomatically. <b>FIRE FIGHTING MEASURES</b> There is no risk of an explosion from this product under normal circumstances if involved in a fire.				





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

- Hazard From: If involved in a fire, it will emit toxic and noxiousCombustion products: If involved in a fire, it will emit toxic and noxiousfumes of oxides of carbon, nitrogen or sulfur.<br/>Firefighters to wear self-contained breathing apparatus<br/>and suitable protective clothing if risk to of exposure<br/>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.
<b>Respiratory protection</b>	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.

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9. PHYSICAL AND CHEMICAL PROPERTIES			
Colour	: Yellow liquid		
Odour	: Odorless		
Physical state	: Liquid		
Density	: 1.07 g/ml		
Flash point	: 45°C		
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	10. STABILITY AND REACTIVITY		

<b>Chemical Stability</b>	:	Stable under normal conditions.		
<b>Conditions to Avoid</b>	:	: Avoid direct sunlight.		
Incompatible Materials	<b>compatible Materials</b> : 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		
		Decomposition Products: Carbon monoxide.		
<b>Hazardous Reactions</b>	:	No polymerization will occur.		

<b>11. TOXICOLOGICAL INFOR</b>	RMATION
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Acute Oral LD50 Acute Dermal LD50 Acute Inhalation LC50 Skin Irritation	:	800 mg/kg (rats) >4000 mg/kg (rabbits) >5000 mg/m <sup>3</sup> (rats) Highly irritant (rabbits)
Eye Irritation Skin Sensitization 12. ECO	: LOGICAL	Mildly irritant (rabbits) Not a skin sensitizer INFORMATION
Bird	:	Acute oral LD <sub>50</sub> for rainbow trout (Onchorynchus mykiss) is 0.0075 mg/L
Daphnia Algae Bees	: : :	Acute LD <sub>50</sub> 0.00034 mg/L EC <sub>50</sub> for green algae is 1.1 mg/L Toxic to bee





#### **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 TOXIC, FLAMMABLE	PESTICIDES,	LIQUID,
UN No.	:	3017		
Class	:	6.1		
<b>Packing group</b>	:	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 S2 - Keep out of the reach of children. Safety S13 - Keep away from food, drink and animal feeding stuffs Phrase 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 Solas Croptech Private Limited, as to the results to be obtained based upon the user's use of the information, nor does Solas Croptech Private Limited assume any liability arising out of user's use of the information.

#### Date: 11/05/2025

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