



1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	:	Chlorpyrifos 20% EC
Common Name	:	Chlorpyrifos
IUPAC Name	:	O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate
Chemical Abstracts Name	:	O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate
CAS No.	:	2921-88-2
Chemical formula	:	C ₉ H ₁₁ Cl ₃ NO ₃ PS
Molecular weight	:	350.6
Chemical Family	:	Organophosphate
Use	:	Insecticide
Company Name	:	Solas Croptech Private Limited.
Address	:	36, Strand Road, 4th Floor, Room No-01, Kolkata- 700001
Phone No.	:	(033) 2231-3306
E-mail	:	solascroptech@yahoo.in
Website	:	www.solascroptech.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Content % (w/w)
Chlorpyrifos a.i.	[2921-88-2]	20.00
Others	-	80.00





	3. HAZARDS IDENTIFICATION	
Health Hazards	Organophosphate works by damaging an enzyme the body called acetylcholinesterase. This enzyme critical for controlling nerve signals in the body. damage to this enzyme kills pests and may ca- unwanted side effects in exposed humans Extraordinary absorbed doses may rarely ca- headache, dizziness, weakness, diarrhea, nausea vomiting, salivation, watery eyes, and small pup Severe symptoms are seizures, slow pulse, diffict breathing, and coma.	e is The ause ause and pils.
Emergency	Warning! Keep out of reach of children. Toxic swallowed and by inhalation.	c if
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 appe disorientation, depression, and personality chan Other symptoms such as weakness, headache, diarrh nausea and vomiting also may occur.	ges.
	4. FIRST AID MEASURES	
Ingestion	DO NOT induce vomiting. Rinse any residual product from mouth and lips. Give water to drink and s medical advice.	
Eye Skin	Immediately flush eyes with running water uproduct is removed. Seek medical advice if irritate persists. Remove contaminated clothing. Wash thoroughlunder running water using a mild soap to remove products. Seek medical advice if irritation, redder	ion y all





•	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.
5.	FIRE FIGHTING MEASURES
:	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.
	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.
:	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.
:	Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke,
	gases or vapours generated.
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AC	CIDENTAL RELEASE MEASURES
:	Isolate and post spill area. Wear cotton overalls
	buttoned to the neck and wrist, washable hat, elbow-
	length 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,
	:

Clean up Procedures : To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to

regulations.





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	:	
Skin Protection	:	Chemical resistant gloves, coveralls socks, apron and chemical resistant foot covering should always be used while handling the product.
Respiratory protection	:	
General Protection	:	

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9. Pł	HYSICAL AND CHEMICAL PROPERTIES
Colour	: Pale yellow - Off-white liquid
Odour	: Aromatic hydrocarbon odour
Physical state	: Liquid
рН	: 5.0 (4.120°C (5% in water)
Specific Gravity	: $0.94 @20^{\circ}C (water = 1)$
Solubility	: Emulsifies
	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
	Decomposition Products: Carbon monoxide.
Hazardous Reactions	: No polymerization will occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50	:	> 200 mg/kg body weight (Rat)
Acute Dermal LD50	:	>2000 mg/kg body weight (Rat)
Acute Inhalation LC50	:	1.43 mg/l 4h (rat)
Skin Irritation	:	Moderate Irritant (Rabbit)
Eye Irritation	:	Irritating to eyes (Rabbit)
Skin Sensitization	:	Not a skin sensitizer (Guinea pig)

12. ECOLOGICAL INFORMATION				
Bird Fish	 Acute oral LD₅₀ for mallard ducks >490 mg/kg LC₅₀ (96 h) for rainbow trout 0.007-0.053 mg/L 			
Bees	 Oral: LC50 (48 h)> 360 ng/bee Contact :LC50 (h) > 70 ng/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	:	PESTICIDES, ORGANOPHOSPHORUS, LIQUID, TOXIC N.O.S. (Chlorpyrifos)
UN No.	:	2783
Class	:	6.1
Packing group	:	III
Marine	:	Yes
pollutant		





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MATERIAL SAFETY DATA SHEET

15. REGULATORY INFORMATION

Hazard symbol



Dangerous for the environment (N)

Risk Phrase	 R24/25 - Toxic in contact with the skin and if swallowed. R36 - Irritating to the eyes. R65 - harmful: may cause lung damage if swallowed. R33 - Danger of cumulative effects
Safety	S2 - Keep out of reach of children.
Phrase	S13 - Keep away from food, drink and other animal foodstuffs.
	S24/25 - Avoid contact with skin and eyes.
	S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

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
