



1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	:	CHLORPYRIPHOS 16% + ALPHACYPERMETHRIN 1% EC
Common Name	:	Chlorpyriphos : Chlorpyriphos
		Alphacypermethrin : Alphacypermethrin
IUPAC Name	:	Chlorpyriphos : O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate
		Alphacypermethrin: A racemate comprising (S)-α-cyano-3- phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate and (R)-α-cyano-3- phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate
Chemical Abstracts Name	:	Chlorpyriphos : O,O-diethyl O-(3,5,6-trichloro-2- pyridinyl) phosphorothioate
		Alphacypermethrin: $[1\alpha(S^*),3\alpha]$ -(±)-cyano(3- phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2- dimethylcyclopropanecarboxylate
CAS No.	:	Chlorpyriphos : 2921-88-2
		Alphacypermethrin: : 67375-30-8
Chemical formula	:	Chlorpyriphos : C ₉ H ₁₁ Cl ₃ NO ₃ PS
		Alphacypermethrin: C ₂₂ H ₁₉ Cl ₂ NO ₃
Molecular weight	:	Chlorpyriphos : 350.6
		Alphacypermethrin: 416.3
Chemical Family	:	Chlorpyriphos : Organophosphate
		Alphacypermethrin: Pyrethroid
Use	:	Chlorpyriphos : Insecticide





Alphacypermethrin: Insecticide

Company Name	:	Solas Croptech Private Limited.
Address	:	36, Strand Road, 4th Floor, Room No-01, Kolkata-700001
Phone No.	:	(033) 2231-3306
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Website	:	www.solascroptech.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name		CAS No.	Content % (w/w)			
Chlorpyriphos		[2921-88-2]	16			
Alphacypermethrin		[67375-30-8]	1			
Other		-	83			
	3.	HAZARDS IDENTIFICA	TION			
Health Hazards	:	Hazard to humans and de	omestic animals. May be fatal			
		if swallowed. Harmful if	inhaled. Cause moderate eye			
		irritation.				
		Environmental Hazards: This product is very toxic to				
		aquatic invertebrates. Keep out of lakes, stream and				
		ponds. Do not dischar	ge effluent containing this			
		product to sewer systems				
Emergency	:	Warning! Keep out of	reach of children. Toxic if			
		swallowed and by inhalat	ion.			
Skin and Eyes	:	Avoid contact with skin a	and eyes, may cause irritation.			
Entry route	:	Ingestion, Inhalation, Con	ntact with eye or skin.			
Symptoms of poisoning	:	: Repeatedly administer medicinal charcoal in a large quantity of water.				





NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting. If medical assistance is not readily available, and poisoning symptoms are severe, vomiting should be induced by tickling the finger on the back of the patient's throat.

	4. FIRST AID MEASURES
Ingestion	: Call a physician or poison control center immediately. Rinse mouth. Induce vomiting only, if patient is fully conscious.
Eye	: Rinse the eyes immediately with water for at least 15 minutes. Remove contact lenses, if it is safe to do so. Get medical advice if irritation persists.
Skin	: Wash the skin immediately with soap and water. If irritation persists, call physician.
Inhalation	: Move the patient to fresh air and call to physician immediately.
Advice to Physician	: Treat as a cholinesterase inhibitor. Atropine in addition oxime preparation such astoxogon in under medical supervision. Inject 2-4 mg Atropine sulphate (for children 0.2 to 5 mg) i.v. or i.m. every 5 to 10 minutes until sings of atropinisation occurs. The patient must remain atropinised for a length of time (24 to 48 hours) to prevent subsequent poisoning due to delayed resorption.
	5. FIRE FIGHTING MEASURES

Specific Hazard	:	The product can burn in fire releasing irritating and				
		toxic gases due to thermal decomposition and combustion.				
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 or nitrogen. 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,

6. ACCIDENTAL RELEASE MEASURES

gases or vapours generated.

- 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
Store the material in a well ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with





Storage	soap and water after handlingStore the product in closed original containers. Protect from light and humidity. Storage depot protected against fire.
	Max. Storage Temperature: 35°C
	Min. Storage Temperature: -10°C

8. EXPOSUF E 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

Appearance	:	Yellow clear liquid
Density	:	$1.09 \text{ g/ml} \pm 0.05$
Flash point		45°C

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions.





Conditions to Avoid	:	Avoid direct sunlight.				
Incompatible Materials	:	Oxidizing agents, acids, polar solvents such as alcohol.				
Hazardous	:	When heated to decompose it emits toxic fumes of				
decomposition products		cyanide, nitrogen oxides. Hazardous Decomposition				
		Products: Carbon monoxide.				
Hazardous Reactions	:	Hazardous polymerization does not occur.				

11. TOXICOLOGICAL INFORMATION

Chlorpyrifos technical

Acute Oral LD50	:	LD ₅₀ (rats) 135-163 mg/kg
Acute Dermal LD50	:	LD ₅₀ (Rabbits) >5000 mg/kg b.w
Acute Inhalation	:	LC ₅₀ (rats): >0.2mg/l air
Skin Irritation	:	Rabbit: Moderate irritant to eye
Eye Irritation	:	Rabbit: Mild irritant to skin
Skin Sensitization	:	Guinea pig: Non-sensitizer

Alphacypermethrin technical

Acute Oral LD50	:	LD ₅₀ (rats) 57 mg/kg
Acute Dermal LD50	:	LD ₅₀ (Rabbits) >2000 mg/kg b.w
Acute Inhalation	:	LC ₅₀ (rats): >0.593mg/l air
Skin Irritation	:	Rabbit: Minimal irritant to eye
Eye Irritation	:	Rabbit: Minimal irritant to skin
Skin Sensitization	:	Guinea pig: Non-sensitizer

12. ECOLOGICAL INFORMATION

Chlorpyriphos technical

Bird		
Mallard duck	:	Acute LD ₅₀ :490mg/kg
Chicken	:	Acute LD ₅₀ :32-102mg/kg
Fish Bluegill sunfish Rainbow trout	:	LC ₅₀ (96h) : 0.002-0.010 mg/l LC ₅₀ (96h) : 0.007-0.051mg/l





Roach Fathead minnows	LC ₅₀ (96h) : 0.025mg/l 0.12-0.54 mg/l
Bees	$LD_{50}(\text{oral}):360 \mu \text{g/bee}$
	$LD_{50}(contact):70\mu g/bee$

Alphacypermethrin technical

Northern bobwhite	:	Acute LD50 :>2025mg/kg
quail Rainbow trout Daphnia Bees	: : :	LC ₅₀ (96h) : 2.8µg/l EC ₅₀ (48h):0.1-0.3µg/l LD ₅₀ (24h) :0.059µg/bee LD ₅₀ (24h) :0.033µg/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 Pesticides, Liquid, Toxic, Flammable (Chlorpyrifis+Alphacypermethrin)
UN No.	:	3017
Class	:	6.1
Packing group	:	III
Marine	:	Yes
pollutant		





15. REGULATORY INFORMATION

Hazard	
symbol	



Dangerous for the environment (N)

	16 OTHER INFORMATION
	S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
	show this container or label.
	S46 - If swallowed, seek medical advice immediately and
	S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
	of water and soap
	S28 - After contact with skin, wash immediately with plenty
	plenty of water and seek medical advice
	S26 - In case of contact with eyes, rinse immediately with
	S13- Keep away from food, drink and animal feeding stuffs S20/21- When using do not eat, drink or smoke.
Phrase	S2- Keep out of the reach of children.
Safety	
	R43 - May cause sensitization by skin contact.
	R41 - Risk of serious damage to eyes.
Phrases)	R38 - Irritating to eyes and skin.
Risks (R-	R2 - Harmful if swallowed.
Special	R10 - Flammable.
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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





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