

Safety Data Sheet: CYPHENOTHRIN 5% EC

1. Chemical Product and Company Identification

Product Name	CYPHENOTHRIN 5% EC (Gokilaht-S 5 EC)	
Chemical Name	: [cyano-(3-phenoxyphenyl)methyl] 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropane-1-carboxylate	
Formula	: C ₂₄ H ₂₅ NO ₃	
Manufacturer	: Sumitomo Chemical India Limited Corporate Office : 13 / 14 Aradhana Industrial Development Corporation, Near Virwani Industrial Estate, Goregaon (East), Mumbai – 400 063 – India	
Emergency Contact Details	: Please, use emergency telephone number shown below.	
Chemtrek 24	East/South East Asia	
	English / Hindi	+65 3158 1074
	English / Hindi	+65 3158 1198
	(Hindi, toll –free number, access from India only)	000 800 100 7479 (toll –free number, access from India only)
Email	: msds@sumichem.co.in	
URL	: http://www.sumichem.co.in	

2. Composition/Information on Ingredients

Chemical Identity	CAS number	Proportion
Cyphenothrin	39515-40-7	5.0 %
Other Ingredient	Balance	Make up to 100%

3. Hazard Identification

Technical

Risk Phrases: Xn:

R20/22 – Harmful by inhalation and if swallowed.

N: R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S23 – Do not breathe fumes or vapour.

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S24 – Avoid contact with skin.

S25 – Avoid contact with eyes.

SUSDP Classification

(Poison Scheduling): S6 - POISON

ADG Classification: Classified as a Dangerous Good (under the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Correct Shipping Name:

PYRETHROID PESTICIDE, LIQUID, TOXIC. (Cyphenothrin)

Dangerous Goods Class: 6.1

UN Number: 3352

Hazchem Code: 2X

Packaging Group: III

GHS label elements Symbol(s):



4. First aid measures and Antidote

General: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Swallowed: If swallowed, do not induce vomiting. Wash mouth with water. Give water to drink. Seek medical advice.

Skin contact: Cyphenothrin 5% EC Sumitomo Chemical, If on skin, remove contaminated clothing and wash skin thoroughly with soap and water. Launder contaminated clothing before re-use. Seek medical advice if irritation develops.

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Eye contact: If in eyes, hold eyes open and flood with water for at least 15 minutes and seek medical advice.

Inhalation: affected, remove from contaminated area to fresh air. If any signs or symptoms occur or persist, seek medical advice.

Note to physician: Apply basic aid and decontamination procedures. Treat symptomatically.

Synthetic Pyrethroid can produce paresthesia.

5. Fire Fighting Measures

Flashpoint: 45 C (closed cup)

Flammable limits: NDA

Auto-ignition temperature: NA

Suitable Extinguishing Media:

Small fire: Use dry chemical, carbon dioxide or water spray.

Large fire: Use water spray, fog or foam – Do not use water jets.

Hazards from Combustion Products:

Precautions for Fire Fighting and Special Protective Equipment:

Large Spills: (Liquid Spill) Thermal decomposition will produce CO, NO_x and HCN. Ensure respiratory equipment is available. Evacuate immediate area. Advise Fire Brigade of nature of hazard. Wear full protective equipment, including breathing apparatus. Surrounding containers should be cooled using a fine water spray. All run-off must be contained.

Hazchem Code: 2X

6. Accidental Release Measure

Small Spills: (Liquid spill) Apply absorbent inert material such as soil, dry sand or vermiculite to the spill area. Sweep up material when absorption is complete and contain in a refuse vessel for disposal. If necessary, wash the spill area with an alkali detergent and water and absorb and contain as above.

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Large Spills:

(Liquid Spill) Place leaking containers into salvage drums. Apply absorbent inert material such as soil, dry sand or vermiculite to the spill area. Form a barricade around spill and in front of drains or waterways in spill vicinity, using soil or other non-reactive material. Sweep up material and contain in a refuse vessel for disposal. Contact emergency services as required.

Disposal: Contaminated material must be disposed of in accordance with all State and/or Local regulations.

7. Handling and Storage

Precautions for Safe Handling: DO NOT USE OR STORE near flame, sparks or hot surfaces. Use only in well-ventilated area. Keep container closed. Keep out of reach of children, unauthorized persons and animals. After handling and before eating, drinking or smoking, wash hands, arms and face with soap and water. For personal protection, see Section 8.

Conditions for Safe Storage: Keep out of reach of children, unauthorized persons and animals. Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Do not store near food, feedstuffs, fertilizer or seed. Store at ambient temperatures

8. Exposure Control and Personal Protection

ENGINEERING CONTROLS

Provide adequate ventilation. Keep container tightly closed.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use only in well ventilated areas. Respiratory protection is recommended.

Hand Protection: Wear chemical resistant gloves.

Eye Protection: Avoid contact with eyes. Eye contact can be avoided by wearing protective eyewear.

Skin and Body Protection: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves, long sleeved shirt, long pants and chemical resistant boots.

Other Information: Wash hands after use. Launder clothes, gloves and face shield or goggles before reuse.

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Appearance: Pale Yellow clear liquid.

Odour: Faint characteristic odour.

pH: 6.4

Vapour Pressure: NA

Vapour Density: NDA

Boiling Point: NA

Melting Point: NA

Solubility in water: Emulsion

Solubility in other solvents: Organic solvent

Density: 0.890 g/mL (27 C)

Viscosity: NA

Flashpoint: 45 (closed cup)

Explosive Limits: NDA

Ignition Temperature: NA

Octanol/Water Partition

Coefficient:

Log Pow = NA

10. Stability and Reactivity

Chemical Stability: Stable under recommended storage and handling conditions (See Section 7).
Unstable in light, particularly UV light.

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Conditions to Avoid: Avoid direct sunlight. Isolate from sources of heat, naked flames or sparks.

Incompatible Materials: Alkaline materials and oxidizing materials.

Hazardous Decomposition Products: Emits toxic fumes under fire conditions (See also Section 5).

Hazardous Reactions: NDA

11. Toxicological Information

Technical

ACUTE HEALTH EFFECTS**Toxicology**

Swallowed: MODERATELY TOXIC TO TOXIC.

(LD50 (male rat) = 318 mg/kg)

(LD50 (female rat) = 419 mg/kg)

Accidental ingestion of small amounts is likely to be harmful.

Skin: NOT HARMFUL.

(LD50 (rat) > 5000 mg/kg)

Inhalation: MODERATELY TOXIC.

(LC50 rat (3 hour) > 1.85 mg/L of air) (maximum attainable concentration, using an artificially produced mist) Inhalation may be harmful.

Irritation

Skin: NON-IRRITANT.

Eye: SLIGHT IRRITANT.

Sensitization

Skin: NOT A SKIN SENSITISER.

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CHRONIC/CARCINOGENIC HEALTH EFFECTS: Not carcinogenic.

OTHER TOXICOLOGICAL INFORMATION

Mutagenicity Information: Not mutagenic.

Teratology (Birth Defects) Information: Not teratogenic.

Reproduction Information: Not genotoxic.

12. Ecological Information (Technical)

Technical

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

Highly toxic to fish: LC50 Rainbow trout (96 hour) = 0.34 µg/L Highly toxic to aquatic invertebrates:

EC50 *Daphnia magna* (48 hour) = 0.43 µg/L Low toxicity to birds: Dietary LC50 Bobwhite quail > 5620 ppm

ENVIRONMENTAL FATE

Soil/Environment: Degradation involves ester hydrolysis and oxidation.

13. Disposal Considerations

This material must be disposed of as a hazardous waste. Disposal should be in accordance with local, national or state regulations.

Contaminated Packaging:

Break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. Transport Information

Technical

Road/Rail/Sea/Air Classified as dangerous in the meaning of Road/Rail (ADG), Sea (IMDG) and

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Air (ICAO/IATA) transport regulations.

Proper Shipping Name: PYRETHROID PESTICIDE, LIQUID, TOXIC. (Cyphenothrin)

Class: 6.1

Sub Risk Class: Not applicable

UN Number: 3352

Hazchem Code: 2X

Packing Group: III

15. Regulatory Information

Registration Status: The active ingredient is registered as per Indian government rules

16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.