

**MATERIAL SAFETY DATA SHEET****PRODUCT : Hexythiazox 5.45% EC****PRODUCT DESIGNATION : Acaricide**

Section 1. Product & Company Identification

Common Name : Hexythiazox

Grade : Formulation

Active Ingredient : Hexythiazox

Chemical Name of Active Ingredient (IUPAC) : (4*RS*,5*RS*)-5-(4-Chlorophenyl)-*N*-cyclohexyl-4-methyl-2-oxo-1,3-thiazolidin-3-carboxamid

Chemical Family of A. I. : Chlorobenzenes

CAS NO. : 78587-05-0

Molecular Formula of A. I. : C₁₇H₂₁ClN₂O₂S

Molecular Mass of A. I. : 352.88 G/MOL

Manufacturer & Supplier : **M/S SOLAS CROPTECH PRIVATE LIMITED**
Head office: 36, Strand Road, 4th Floor, Room No-01,
KOLKATA – 700001 (W.B)

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Section 2. Composition / Information on Ingredients

Components	Composition
Hexythiazox	5.5 %w/w
Other components	94.5 % w/w
Total	100.00% w/w



Section 3. Hazards Identification

Hazard Statement:

H350 May cause cancer.

H370 Causes damage to organs (Respiratory system).

H372 Causes damage to organs (lung) through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated inhalation exposure.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Section 4. First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Ingestion: Wash mouth out with water. Do not induce vomiting. Get medical attention if symptoms occur.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, foam, CO₂, dry powder.

Hazards from Combustion: Emits toxic fumes under fire conditions.

Precautions for Fire-fighting: Evacuate area. Wear self-contained breathing apparatus and protective clothing.



Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Keep upwind. Avoid breathing sprays, vapors and dust. Do not use contact lenses. Avoid contact with skin. Keep unnecessary people away. Collect material in dry, clean containers for later disposal and/or reclamation.

Environmental precautions: Isolate and dyke fire control water to avoid contamination of superficial waters, since product is toxic to aquatic organisms.

Methods and material for containment and cleaning up: Collect spilled material using an absorbing material. Wash contaminated area with water and detergent.

Section 7. Handling & Storage

Handling: Avoid inhalation, ingestion, and contact with skin and eyes.

Wear protective clothing.

Storage: Store in a cool, dry, well-ventilated area away from direct sunlight and sources of ignition. Keep out of reach of children.

Section 8. Exposure Control, Personal Protection

Control parameters: There are no Exposure Limit Values established by the OSHA, NIOSH or ACGIH.

Exposure controls:

Respiratory protection: Dust-proof breathing apparatus. General ventilation system to reduce air concentration level.

Hand protection: PVC or other plastic gloves

Eye protection: Splash-proof safety goggles or mask

Skin protection and body: Suitable waterproof protective clothing and apron which do not accumulate dust.

Environmental exposure controls: Do not apply immediately after rain or irrigation, when plants are covered with dew or in very dry conditions or high temperatures. Avoid the contamination of waters. Very toxic to aquatic organisms. May cause long-term effects in the aquatic environment.



Section 9. Physical and Chemical Properties

Appearance / state	:	Liquid
Colour	:	Dark brown liquid
Odour	:	Mild
Boiling point	:	180 – 210 °C
Flash Point	:	80 – 90 °C
Density	:	1.02 - 1.08 g/cm ³
Water Solubility	:	Insoluble in water

Section 10. Stability & Reactivity

Stability: Stable

Hazardous Reactions: None under normal processing

Conditions to Avoid: Heat, sparks, open flames, direct sunlight, and sources of ignition

Incompatibilities: Strong oxidizing agents

Section 11. Toxicological Information

Hexythiazox technical

Acute Oral Toxicity- LD ₅₀	Rat: >5000 mg/kg body weight
Acute Dermal Toxicity- LD ₅₀	Rat: >5000 mg/kg body weight
Acute Inhalation - LD ₅₀	Rat: >2 mg/L air - 4 hours
Eye irritation	Slightly Irritating (Rabbit)
Skin Irritation	Non-Irritating (Rabbit)
Skin Sensitization	Non-Sensitizing (Guinea Pig)

Section 12. Ecological Information

Hexythiazox technical

Toxicity to Fishes	Fish (Rainbow Trout) 96-hour LC ₅₀ >300 mg/l
Toxicity to daphnia	CL 50 (48 h) daphnia 1,2 mg/l.
Toxicity to Bees	> 200 µg /bee
Toxicity to Birds	Japanese quail LC ₅₀ > 5000 mg/kg



Toxicity to Earthworm

28 mg/kg soil

Section 13. Disposal Consideration

Waste treatment methods:

Suitable disposal methods of preparation: The product must be eliminated taking into account that it is a dangerous product; both as regards the substance itself and the container. Incineration.

Suitable disposal methods for Packaging: When empty, this container is a toxic residue. Empty containers (bags), are rinsed under pressure with special equipment or triple rinsing is done (water laundering thrown in spray can) and then along with boxes to be destroyed prior to drilling to ensure no further use, disposed of all a collection point for recycling or energy recovery.

Section 14. Transport Information

IMDG Classification

Shipping name : Environmentally hazardous substance, liquid, N.O.S
(Hexythiazox)
Class : 9
Packing group : III
UN number : 3077
Marine pollutant : Yes

Section 15. Regulatory Information

Hazard statements:

H410: Very toxic to aquatic life with long lasting effects.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

Prevention precautionary statements:

P260: Do not breathe dust.

P270: Do not eat, drink or smoke when using this product



P280: Wear protective gloves/protective clothing/eye protection/face protection.

Section 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.

Safety Division: SOLAS CROPTECH PRIVATE LIMITED, SAFETY DIVISION