

MATERIAL SAFETY DATA SHEET

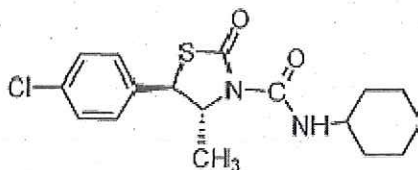
SECTION 1: PRODUCT IDENTIFICATION

Product name: Hexythiazox 450 g/L SC

Molecular formula: C₁₇H₂₁ClN₂O₂S

Molecular weight: 352.9

Structure:



CAS No.: 78587-05-0

Use catalogue: Acaricide

SECTION 2: COMPOSITION AND INGREDIENT INFORMATION

Hexythiazox

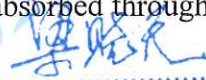
450 g/L

SECTION 3: HEALTH HAZARD INFORMATION

Emergency overview: Caution. Harmful if swallowed, inhaled or absorbed through the skin.

Avoid contact with skin, eyes and clothing.

For and on behalf of
NANJING ESSENCE FINE-CHEMICAL CO.,LTD.



Authorized Signatures

SECTION 4: FIRST AID MEASURES

Eye: Wash the eyes with abundant water at least during 15 minutes. In order to be sure that the washing is complete, the eyelids must remain separated from the eyeball. Do not forget to retire the contact lenses in case the victim had them.

Skin: Remove clothing contaminated with the product immediately. Wash it before using again. Wash the affected body zones with abundant water and soap, avoiding rubbing these zones.

Ingestion: In case of ingestion, DO NOT provoke the vomit. If the person is unconscious, lay him side down with the head lower than the rest of the body and the knees bended. Administer activated carbon and a saline type laxative (sodium, magnesium or similar sulphate). Place the victim into a rest position. Look for medical aid for practicing a gastric lavage. Symptomatic treatment.

Inhalation: Remove the person from the contaminated zone. Put him in rest position, nearly straight, with untied clothing. If necessary, apply artificial respiration.

SECTION 5: FIRE AND EXPLOSION INFORMATION

Extinguishing media: Chemical powder, carbon dioxide (CO₂), foam, sand and water spray.

Special hazards arising from the substance or mixture: Smoke caused by the fire may form toxic gases such as chlorine gases, HCl, CO_x, NO_x and SO_x.

Fire fighting instructions: Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses. Contain the spread of the fire-fighting media. Firefighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal protection: Ensure suitable personal protection during removal of spillages. This means wearing a face mask that gives protection against toxic dusts, eye protection, chemically resistant gloves (e.g. 0.6 mm nitrile), boots and coveralls.

Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

SECTION 7: HANDLING AND STORAGE

Handling: - Handle the product container with care, avoiding, during its transport, crushes with heavier products and not letting it fall down. - Before applying the product be sure that the equipment you will use is the proper one and it is in perfect state. - Follow the instructions for the product preparation indicated on the label of the container. - Mark the treated zones, forbidding people not wearing appropriate protective equipment to enter. - Have in hand the appropriate devices to wash eyes or skin in case of an accident. - Avoid the skin contact with the product and inhalation of the powder. Work always in favour of the wind. - Do not eat, drink, or smoke during the manipulation of the product. - Take off the stained or soaked clothing with product immediately and wash with water and soap before using it again. Do not put dirty rags, stained with the product in the pockets. - Avoid the contact with the product.

Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

General protection: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Eye/Face protection: Goggles or Face-shield

Hand protection: Chemical resistant nitrile rubber gloves

Body protection: Wear long-sleeved shirt and long pants and shoes plus socks. Consideration must be given both to durability as well as permeation resistance.

Respiratory protection: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white liquid

Odor: Characteristic odor

SECTION 10: STABILITY AND REACTIVITY INFORMATION

Stability: Stable under normal conditions.

Conditions to avoid: Exposure to moisture.

Materials to avoid: Strong acids; strong bases; strong oxidizing agents; strong reducing agents

For and on behalf of
 NANJING ESSENCE FINE-CHEMICAL CO.,LTD.

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Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11: TOXICOLOGICAL INFORMATION

For Hexythiazox tech

Oral: Acute oral LD₅₀ for rats >2000 mg/kg.

Skin and eye: Acute percutaneous LD₅₀ for rats >2000 mg/kg. Non-irritating to skin and eyes (rabbits). Non-sensitising to skin (guinea pigs).

Inhalation: LC₅₀ (4 h) for rats >3.829 mg/l air.

SECTION 12: ECOLOGICAL INFORMATION

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Birds: Acute oral LD₅₀ for mallard ducks >2510, Japanese quail >5000 mg/kg. Dietary LC₅₀ (8 d) for mallard ducks and bobwhite quail >5620 ppm diet.

Fish: LC₅₀ (96 h) for rainbow trout >300, bluegill sunfish 3.2, carp 14.1 mg/l.

Daphnia: LC₅₀ (48 h) 0.36 mg/l.

Algae: E_rC₅₀ (72 h) for *Pseudokirchneriella subcapitata* >72 mg/l.

Bees: Not toxic to bees. LD₅₀ by topical application >200 µg/bee.

SECTION 13: DISPOSAL CONSIDERATIONS

Product disposal: Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Dispose in accordance with all local, state/provincial and federal regulations.

Container disposal: Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.

For and on behalf of,
NANJING ESSENCE FINE CHEMICAL CO., LTD.
Authorized Signatures

SECTION 14: TRANSPORT INFORMATION

UN No.: 3082

Class: 9

Packing Group: III

SECTION 15: REGULATORY INFORMATION

This product must be stored under the personal control of an approved handler at all times or it must be locked up. However if an approved handler is present at the facility where the substance is being handled, or the approved handler has provided guidance to the person in respect to the handling of the product and is present at all times a non approved handler may handle the product. Note: The approved handler can be in contact by the use of a cell phone.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of our company's knowledge. We make no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. To the extent permitted by applicable law, we disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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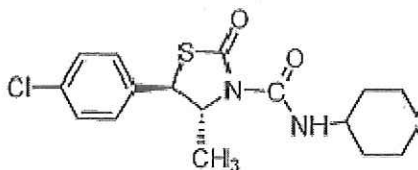
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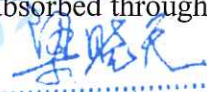
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