

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: **HEXYTHIAZOX 2% + PROPARGITE 42% EC**
Use / description of product: Use as an agricultural/horticultural insecticide
Company name: INDOFIL INDUSTRIES LIMITED
 Kalpataru Square, 4th Floor,
 Kondivita Road, Off. Andheri Kurla Road, Andheri (E),
 Mumbai 400 059, Maharashtra, India.
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2. HAZARDS IDENTIFICATION

GHS Classification

Hazard Symbol



Signal word:

Hazard statement(s):

DANGER

H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H331 Toxic if inhaled.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 H410 Very toxic to aquatic life with long lasting effects.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ eye protection/ face protection.
 P284 Wear respiratory protection.
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS	%
Active ingredient (Propargite)	2312-35-8	42
Active ingredient (Hexythiazox)	78587-05-0	2
Other ingredients	-----	QS to make up 100

4. FIRST AID MEASURES

Most Important symptoms and effects, both acute and delayed

Skin contact

Eye contact

There may be mild irritation at the site of contact

There may be irritation and redness. The vision may become

Ingestion

blurred
There may be soreness and redness of the mouth and throat

Description of first aid measures

In general

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

After Ingestion

Do not induce vomiting. Provided the patient is conscious, wash mouth with water and give plenty of water to drink. Consult a physician. The decision of whether to induce vomiting or not should be made by a physician.

After eye contact

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

After skin contact

Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.

After Inhalation

Remove to fresh air. Consult a physician if irritation develops

Indication of any immediate medical attention and special treatment needed

Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Water spray. Carbon dioxide. Dry chemical powder.

Exposure hazards:

May form flammable / explosive mixture. In combustion emits toxic fumes of sulphur Oxides, nitrogen oxides, carbon dioxide / carbon monoxide.

Protection of fire-fighters:

Wear self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Eliminate all sources of ignition. Do not create dust.

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures:

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Do not use equipment in clean-up procedure which may produce sparks.

7. HANDLING AND STORAGE

Handling requirements:

Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools.

When handling do not eat, drink or smoke.

Storage conditions:

Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Keep in original containers, out of reach of children Never allow the product to become wet during storage. This may lead to chemical changes,

which will reduce the effectiveness as an insecticide and could create flammable vapours.

Must only be kept in original packaging.

Suitable packaging:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:

Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection:

Wear approved respirator.

Hand protection:

Protective gloves

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection:

Safety goggles.

Skin protection:

Mixers and loaders must wear overalls , protective goggles and chemical-resistant apron.

Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:

Liquid

Colour:

Brown

Odour:

Slight

Solubility in water:

Forms emulsion in water

pH

5 - 7

Flash Point

No data

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to avoid:

Acids and moisture (in storage)

Hazardous decomp. products:

Exposure to elevated temperatures can cause product to decompose.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:

PROPARGITE and HEXITHIAZOX

Acute toxicity (Assessment largely or completely based on data for active substance)

Acute Oral LD₅₀ (Rat)

for Propargite >2843 mg/kg (rats)

for Hexythiazox > 2000 mg/kg (female rats)

Acute Dermal LD₅₀

for Propargite > 4000 mg/kg (rabbits)

for Hexithiazox >2000 mg/kg (rabbits)

Acute Inhalation LD₅₀

for Propargite >0.05 mg/L (4h) (rats)

For Hexythiazox > 3.829 mg/L (4h) (rats)

EYE Irritation (Rabbit)

Sever eye irritant (Propargite); Not an irritant (Hexythiazox)

Skin Sensitization (Guinea Pig)

Both are not skin sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity: (Assessment largely or completely based on data for active substance)

Aquatic toxicity :

Material is harmful to aquatic organisms.

Fish

LC₅₀ (96 h,)

for Propargite : Rainbow Trout 0.118 mg/l (96h), Bluegill sunfish 0.168 mg/l, Cat fish 0.004 mg/l

for Hexythiazox : Rainbow Trout > 300 mg/l, Bluegill sunfish 3.2 ; car 14.1 mg/L

Daphnia (EC50,48h)

For Propargite : 0.092 mg/L; Hexythiazox 0.36 mg/L (48h)

Bird

Dietary LC₅₀

For Propargite : Mallard Duck >4640 mg/kg;

Bobwhite Quail 3401 mg/kg

For Hexythiazox : Mallard Duck and Bob Quail > 5620 ppm

Honey Bees LD 50

for Hexythiazox > 200 (contact)

for Hexythiazox 0.01462 µ/bee and 15 µ/bee for Propargite

Environmental Fate

Persistence and Degradability:

No data

Bio-accumulation potential:

No data

Mobility in soil:

No data

13. DISPOSAL CONSIDERATIONS

Disposal operations:

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Disposal of packaging:

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

U.S> Department of Transportation (DOT)

Bulk

UN no:

3082

Shipping name:

Hexythiazox 2% + Propargite 42% EC, Environmentally Hazardous Substance, n.o.s.

Hazard Class:

9

Packing group:

III

Land Transport (ADR / RID)

UN no:

3082

Shipping name:

Hexythiazox 2% + Propargite 42% EC, Environmentally Hazardous Substance, n.o.s.

Hazard Class:

9

Packing group:

III

Marine Transport (IMDG / IMO)

UN no:

3082

Shipping name:

Hexythiazox 2% + Propargite 42% EC, Environmentally Hazardous Substance, n.o.s.

Hazard Class:

9

Packing group: III
Marine pollutant: Yes
EmS: F-A, S-F

Air transport (IATA / ICAO)

UN no: 3082
Shipping name: Hexythiazox 2% + Propargite 42% EC, Environmentally Hazardous Substance, n.o.s.
Hazard Class: 9
Packing group: III
Cargo Packing instructions:

15. REGULATORY INFORMATION

U.S. Regulation :

SARA HAZARD CATEGORY :

This product has been reviewed according to the EPA “Hazard Categories” promulgated under section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definitions to meet the following categories :

- An immediate health hazard
- A delayed health hazard

OSHA HAZARD COMMUNICATION STANDARD:

This Product is a “Hazardous Chemical” as defined by the OSHA Hazard Communicated Standard, 29 CFR 1910.1200.

Hazardous Products Act Information: CPR Compliance

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR).

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

EU Directive 67/548/EEC for classification, packaging and labeling of dangerous substances

Hexythiazox 2% + Propargite 42% EC
is classified as a Harmful and Dangerous for the environment under the Directive 67/548/EEC

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.