

SAFETY DATA SHEET

ZERO-FLY

Page 1 of 7

Date of issue: 14/12/2022

Date of revision: 14/12/2022

Version no.: 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ZERO-FLY

1.2 Relevant identified uses of the substance or mixture and uses advised against

Common uses: Insecticide.

Uses advised against: N/A

1.3 Details of the supplier of the safety data sheet

Tapazol Chemical works Ltd.

1st HaSolela st., West. Ind. Zone, Beit Shemesh, 9905415.

Tel: +972-25437404

Fax: +972-153-2-9997307

E-mail address of person responsible for this SDS: reg2@tapazol.co.il

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): +972-4-7771900

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP):

Eye Irrit. 2 H319

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

See section 16 for the full text of the H-statements declared above.

2.2 Label elements

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s):

H319: Causes serious eye irritation.

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

Precautionary Statement(s):

P273: Avoid release to the environment.

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

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P337+P313: If eye irritation persists: Get medical advice/attention.

SAFETY DATA SHEET

ZERO-FLY

Page 2 of 7

P391: Collect spillage.

2.3 Other hazard

Not available

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

Ingredient name	Identifiers	%	CLP Classification
Dinotefuran (ISO); 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine	CAS number: 165252-70-0 EC number: 605-399-0	10-50	Aquatic Acute 1 H400 M (Acute)=10 Aquatic Chronic 1 H410 M (Chronic)=10
Propylene carbonate	CAS number: 108-32-7 EC number: 203-572-1	10-50	Eye Irrit. 2 H319

See section 16 for the full text of the H-statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable: Foam, carbon dioxide, dry powder or water spray. Cool containers/tanks with water spray.

Not suitable: Water jet.

SAFETY DATA SHEET

ZERO-FLY

Page 3 of 7

5.2 Special hazards arising from the substance or mixture

Under fire conditions may emit toxic and irritating fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill. Keep away from sources of ignition.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and 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.

6.4 Reference to other sections

See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Keep away from sources of ignition - No smoking.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition. Keep away from organic and mineral acids, halides, methylbromide, sodium hydride, zinc, carbon steel in the presence of water, strong acids and strong oxidizing agents.

7.3 Specific end use(s): N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters

Occupational exposure limit values: N/A

8.2 Exposure controls

Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

SAFETY DATA SHEET

ZERO-FLY

Page 4 of 7

Person Protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: clear yellowish liquid

Odour: N/A

Odour threshold: N/A

pH: 6-8

Melting point/Freezing point: N/A

Initial boiling point/boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: 1.1-1.2

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

9.2 Other information

N/A

SECTION 10: Stability and reactivity

10.1 Reactivity

Not available

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid

Heat. Sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents. Organic and mineral acids. Halides. Methyl bromide. Sodium hydride. Zinc. Carbon steel in the presence of water (stainless steel is compatible in the presence of water). Strong acids.

SAFETY DATA SHEET

ZERO-FLY

Page 5 of 7

10.6 Hazardous decomposition products

Other decomposition products: Sulfur oxides.

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Test	Species	Dose
ZERO-FLY	LD50, Oral	Rat	5000 mg/kg
	LC50, Inhalation	Rat	>5.694 mg/L/4H

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified as a skin sensitizer.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Toxicity to algae	Toxicity to fish	Toxicity to crustaceans
Dinotefuran (ISO); 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine	-	LC50/96h – Rainbow trout – >100 mg/l, Blugill sunfish – >100 mg/l; Common Carp - >100 mg/l; Sheepshead Minnow - >109 mg/l; NOEC (early life stage) Rainbow Trout - >10 mg/l;	EC50/48h – Daphnia magna – >1000 mg/L NOEC (life cycle) – Daphnia magna – >100 mg/L
Propylene carbonate	Erc50/72h- Green algae - >929 mg/l	LC50/96h – Cyprinus carpio – >1000 mg/l	EC50/48h – Daphnia magna – >1000 mg/L

12.2 Persistence and Degradability

Not available

12.3 Bioaccumulative potential

Not available

SAFETY DATA SHEET

ZERO-FLY

Page 6 of 7

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 Un number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dinotefuran (ISO); 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dinotefuran (ISO); 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine)

IATA: Environmentally hazardous substance, liquid, n.o.s. (Dinotefuran (ISO); 1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine)

14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

14.4 Packing group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazard

Marine pollutant: Yes

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

SECTION 15: Regulatory information

This SDS complies with the following requirements of:
EU Regulation (EC) No.1907/2006 (REACH) including amendments
Regulation (EC) No.1272/2008 (CLP)

SAFETY DATA SHEET

ZERO-FLY

Page 7 of 7

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available

15.2 Chemical safety assessment

Not available

SECTION 16: Other information

Full text of Hazards Statements referred to in sections 2 and 3:

Aquatic Acute - Hazardous to the aquatic environment

Aquatic Chronic - Hazardous to the aquatic environment

Eye Irrit. - Eye irritation

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

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

Training advice: Before using/handling the product one must read carefully present SDS.

Key Legend Information:

CAS- Chemical Abstract Service

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

N/A- Not available

H-statements- Hazard statements

TLV- Threshold Limit Value

TWA- Time-weighted average

STEL- Short-Term Exposure Limit

CSA- Chemical safety assessment

Date of issue:14/12/2022

Version no.: 1

This SDS and the information presented within it are based on data held by Hazmat, Ltd. and the current legislation as at the date stated on it. Anyone wishing to make use of the information presented within this document is obligated to update its instructions from time to time. The information presented in the SDS is based on the manufacturer's data and/ or the supplier of the substance/ product which is the subject of this SDS, as provided to Hazmat, Ltd. by the client and in the absence of such data the information was taken from a variety of literary professional sources. The information presented in this SDS is appropriate for the uses specified in paragraph 1 of the SDS only. It is emphasized, that the information specified in this SDS does not replace specific safety instructions for uses of the substance/ product which is the subject of this SDS, which were not explicitly specified in the SDS. Individual professional consultation should be received, and specific safety instructions should be read prior to any mixing of the substance which is the subject of this SDS with other substances and the stated in this SDS does not cover the entire safety instructions relating to mixing the substance which is the subject of this SDS with other substances and does not constitute a replacement to obtaining specific consultation as stated. Hazmat, Ltd. is not liable to any damage and/ or any loss, financial or otherwise, and will not accept responsibility, directly or indirectly, to damages of any kind, including as a result of failure to update and/ or misunderstanding and/ or misuse/ misinterpretation of the information within the document. Any question arising regarding the use of the SDS should be directed to Hazmat, Ltd., 23 Ha' Melacha st. Rosh Ha'Ayin, Tel: +972-3-9037141, fax: +972-3-9032717, email: hazmat@hazmat.co.il. The information detailed in this SDS was prepared by Hazmat, Ltd. for the orderer of the SDS and is for their use only. The contents of this SDS is the property of Hazmat, Ltd. only and it is strictly prohibited to copy, modify, edit, distribute, sell or take any other action which involves infringement of Hazmat's copyrights without the prior written consent of Hazmat, Ltd.