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1. Identification

Product Name: TEMPEST DUAL-ACTION INSECTICIDE

Synonyms: None

Product Use : Bifenthrin-Imidacloprid Insecticide

Manufacturer/Supplier: Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification





Signal Word : Danger

Skin Irritation : Non-irritating to skin
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50 >175 mg/kg (rat)
Acute Toxicity Dermal : LD50 >5,000 mg/kg (rabbit)

Hazard Categories: Oral/Dermal/Inhalation Tox-3/5/4; Eye Irr-2B; STOT-SE-1; STOT-RE-1;

Carcinogen-2

Hazard Statement: Toxic if swallowed

May be harmful in contact with skin

Causes eye irritation Harmful if inhaled

Causes damage to organs

Causes damage to organs through prolonged or repeated exposure

Suspected of causing cancer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Non-hazardous formulation aids	Proprietary	77.4
Imidacloprid	138261-41-3	11.3
Bifenthrin	82657-04-3	11.3



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4. First Aid Measures

Eye: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.

Call a poison control center or doctor for further treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15

to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison

control center or doctor for treatment advice.

Ingestion: Immediately call a poison control center or doctor. Have person sip a glass of

water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not induce vomiting or give anything by mouth if

unconscious.

Attention and Special Treatment

Needed

Indication of Immediate Medical : This product is a pyrethroid. If large amounts are ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive.

Digestible fats, oils or alcohol may increase absorption and should be avoided.

5. Fire Fighting Measures

Extinguishing Media : Not a flammable liquid. Use foam, carbon dioxide or dry chemical. Use soft

stream or water fog only if necessary.

Specific Hazards Arising from the : Emits the following hazardous combustion products: Carbon oxides (COx),

Chemical Hydrogen chloride, Hydrogen fluoride.

Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing. Isolate fire

area. Evacuate downwind.

6. Accidental Release Measures

Containment and Cleanup

: Isolate and post spill area. Keep unprotected and unnecessary personnel out of **Personal Precautions** spill area.

Protective Equipment : Splashproof goggles or face shield, protective gloves, long-sleeved shirt and long pants, shoes plus socks. Wear a filtering mask for dust, splash, mist or spray

exposures. Eyewash and emergency shower should be available in work area. Emergency Procedures : Dike to prevent runoff. Keep people and animals away from and upwind of

spill/leak. Keep material out of lakes, streams, ponds and sewer drains. Methods and Materials for : Absorb with earth, sand or other non-combustible material and transfer to

containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste.

7. Handling and Storage

Precautions for Safe Handling: Do not contaminate other pesticides, fertilizers, water, food or feed by storage,

handling or disposal.



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Conditions for Safe Storage : Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot

surfaces and sources of ignition. Keep out of reach of children and animals.

Keep/store only in original container.

8. Exposure Controls / Personal Protection

TLV/PEL: No TLV or PEL established for Bifenthrin or Imidacloprid.

Appropriate Engineering Controls : Apply technical measures to comply with occupational exposure limits. If working

in confined spaces, ensure there is a supply of air suitable for breathing and wear

the recommended equipment.

Personal Protective Equipment : Splashproof goggles or face shield, protective gloves, long-sleeved shirt and long

pants, shoes plus socks. Wear a filtering mask for dust, splash, mist or spray exposures. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : White to tan liquid

Flash Point, oF : >200 Degrees F.

Boiling Point, oF: No information found

Melting Point(Freezing point), oC : Not applicable

Vapor Pressure, mm Hg @ 20 oC : No information found

Vapor Density: No information found

Solubility in Water : Dispersible

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 oC : 1.074-1.094

Evaporation Rate(Butyl Acetate = : No information found

1)

Octanol/Water Partition : No information found

Coefficient

pH : 7.0

Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature : Not determined

Decomposition temperature: No information found

10. Stability and Reactivity

Reactivity: No information found

Chemical Stability: Stable

Hazardous Decomposition : May emit carbon oxides, hydrogen chloride and hydrogen fluoride under fire

Products conditions.

Hazardous Polymerization: Will not occur

Conditions to Avoid : Excessive heat and fire



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Incompatible Materials: Avoid strong bases, strong acids and strong oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >175 mg/kg (rat). Toxic if swallowed.

Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rabbit). May be harmful in contact with skin.

Acute Toxicity Inhalation LC50 : >2.32 mg/L/4 hours (rat). Harmful if inhaled.

Likely Routes of Exposure : Ingestion, inhalation, skin, eyes

Skin Irritation: Not classified as hazardous under 29 CFR 1910.1200 (2012).

Eye Irritation: Causes eye irritation.

Skin Sensitization : Non-sensitizing (Guinea pig)

Carcinogenic : Suspected of causing cancer. Bifenthrin=liver adenocarcinomas and benign

bladder tumors (male mice).

Chronic Effects : Specific Target Organ Toxicity-Repeated Exposure: Causes damage to Central

Nervous System, Thyroid, Liver through prolonged or repeated exposure.

Other Hazards : STOT-Single Exposure: Causes damage to Central Nervous System, Thyroid,

Liver. Bifenthrin causes clinical signs of neurotoxicity (tremors, impaired gait,

excessive salivation) following acute or subchronic exposure.

12. Ecological Information

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

Persistence and Degradability: Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily

biodegradable. Imidacloprid: Persistent in soil.

Bioaccumulative Potential: Bifenthrin: Has some potential to bioaccumulate in the environment.

Mobility in Soil: Bifenthrin: Immobile. Not expected to reach groundwater.

Other Adverse Effects : No information available.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : UN3352, Pyrethroid Pesticide, Liquid, Toxic, (Bifenthrin, Imidacloprid)

Transport Hazard Class : Toxic (6.1)
UN Identification Number : UN3352
Packaging Group : PG III

Environmental Hazards: Marine Pollutant only if shipped by Air (IATA) or Vessel (IMDG). Not listed as a

Marine Pollutant per 49 CFR 172.101, Appendix B.



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Transport in Bulk: No additional shipping requirements for bulk shipments.

Special Precautions for : ERG # 151

Transportation

Freight Classification: Pesticides, NOI, Insecticides, Poison

15. Regulatory Information

National Fire Protection : Association Rating

Health: 2 Fire: 1 Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate(Acute) Health: Y

Delayed (Chronic) Health: Y Sudden Release of N

> Pressure: Fire: N Reactive: N

FIFRA Information: This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the

pesticide label:

EPA Registration Number : 279-3459-5905

FIFRA Signal Word : Warning

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement: Restricted Use Pesticide - Toxic to fish and aquatic organisms.

FIFRA Label Statement : May be fatal if swallowed.

FIFRA Label Statement : Harmful if absorbed through skin.

FIFRA Label Statement : Harmful if inhaled.

FIFRA Label Statement : Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

FIFRA Label Statement : Avoid breathing spray mist or vapor.

16. Other Information

Data of Preparation/Revision : 23-November-2015