



Safety Data Sheet

Report Date 20-May-15

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1. Identification

Product Name : EMPOWER 2
Synonyms : None
Product Use : Bifenthrin Insecticide with Indole-3-Butyric Acid
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 : Warning (no symbol)
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Acute Toxicity Oral : LD50 7,431 mg/kg (rat).
Acute Toxicity Dermal : LD50 >5,000 mg/kg (rabbit).
Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye Irritation-2B; Skin Irritation-3
Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Bifenthrin	82657-04-3	1.150
Indole-3-Butyric Acid	133-32-4	0.001
Blend of Ammonia Carboxylates and Inert Ingredients	Proprietary	98.849

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 person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.
Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media : Use foam, carbon dioxide or dry chemical. Soft stream water fog only if necessary. Prevent runoff of any fire fighting waters.



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- Specific Hazards Arising from the Chemical** : Slightly combustible solid - may support combustion at elevated temperatures.
- Special Fire Fight Proc** : Wear full protective clothing and positive-pressure self-contained breathing apparatus. Stay upwind and avoid breathing smoke, gases or vapors.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area. Avoid generating or breathing dust.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : For dry spills, use a wet sweeping compound or water to prevent formation of dust. Cover spilled product to prevent dispersal. Do not contaminate water supplies, lakes, streams, ponds, drains or sewers with spilled product.
- Methods and Materials for Containment and Cleanup** : If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with clay, sand or soil. Vacuum, shovel or pump all waste material and absorbents into salvage drums. Properly label for disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children and animals. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not put concentrate or dilute material in food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage, handling or disposal.
- Conditions for Safe Storage** : Do not store in or around the home. Store in original containers only. Store in a cool, dry place and avoid excessive heat.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established.
- Appropriate Engineering Controls** : General (mechanical) room ventilation should be sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Grey to tan, free flowing granules, faint odor.
- Flash Point, °F** : Slightly combustible solid.
- Boiling Point, °F** : Not applicable
- Melting Point(Freezing point), °C** : Not applicable
- Vapor Pressure, mm Hg @ 20 °C** : Not applicable
- Vapor Density** : Not applicable
- Solubility in Water** : Not determined
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : Density 35-40 lbs/cu. ft.
- Evaporation Rate(Butyl Acetate = 1)** : Not applicable
- Octanol/Water Partition Coefficient** : No information found
- pH** : Not applicable; non-aqueous.
- Flammable Limits (approximate volume % in air)** : Not determined



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Auto-ignition Temperature : Not determined
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce carbon monoxide, carbon dioxide, hydrogen chloride and hydrogen fluoride under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid excessive heat and fire.
Incompatible Materials : None currently known.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 7,431 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rabbit). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : 5.73 mg/L. May be harmful if inhaled.
Likely Routes of Exposure : Eye, skin, inhalation
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : Contains silica quartz which is listed by IARC as a carcinogen.
Chronic Effects : No data currently available.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : Marine pollutant (Bifenthrin)
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

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 : Not regulated by DOT in non-bulk packaging.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Bifenthrin is a marine pollutant and must be shipped as a dangerous good by air (IATA) or water (IMDG).
Transport in Bulk : If transported in bulk by ground (DOT), ship as UN3077, Environmentally Hazardous Substance, n.o.s., (Bifenthrin), 9, PG III, Marine Pollutant
Special Precautions for Transportation : No information found



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Freight Classification : Pesticides, NOI, Insecticides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

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 Pressure: N
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 : 5905-548
FIFRA Signal Word : Caution
FIFRA Label Statement : Restricted Use Pesticide
FIFRA Label Statement : Toxic to fish and aquatic organisms.
FIFRA Label Statement : Keep out of reach of children.
FIFRA Label Statement : Causes moderate eye irritation.
FIFRA Label Statement : Avoid contact with eyes or clothing.
FIFRA Label Statement : No additional label statements.
FIFRA Label Statement : No additional label statements.

16. Other Information

Data of Preparation/Revision : 20-May-2015