



Safety Data Sheet

Report Date 05-Apr-17

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1. Identification

Product Name : HELENA IMIDACLOPRID SEED TREATMENT
Synonyms : None
Product Use : Neonicotinoid 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 : Warning
Skin Irritation : Non-irritating
Eye Irritation : Minimally irritating
Acute Toxicity Oral : LD50 (female rat) = 4,070 mg/kg; (male rat) = 4,690 mg/kg
Acute Toxicity Dermal : LD50 (rabbit) >5,050

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Harmful if inhaled
Causes eye irritation
Causes mild skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Imidacloprid	138261-41-3	48.70
Other ingredients		51.30

4. First Aid Measures

Eye : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for 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 not breathing, call 911 for 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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : There is no specific antidote. Treat symptomatically.

5. Fire Fighting Measures



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- Extinguishing Media** : Use water spray, carbon dioxide, alcohol-resistant foam or dry chemical extinguishing agents.
- Specific Hazards Arising from the Chemical** : Hydrogen chloride, hydrogen cyanide (hydrocyanic acid), carbon monoxide, nitrogen oxides.
- Special Fire Fight Proc** : Keep out of smoke. Cool exposed containers with water spray. Fight fire from upwind. Use self-contained breathing apparatus and full protective clothing. Do not allow runoff from fire fighting to enter drains or water courses.

6. Accidental Release Measures

- Personal Precautions** : Isolate area and keep unauthorized people away. Avoid breathing vapors and avoid skin contact.
- Protective Equipment** : Eyewash station, emergency shower, splashproof goggles, chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks.
- Emergency Procedures** : Do not allow product to enter drains, streams, sewers or other waterways. Do not allow product to contact vegetation.
- Methods and Materials for Containment and Cleanup** : Clean up spills immediately. Use absorbent material (e.g., sand, diatomaceous earth, etc.) to collect spilled liquid. Shovel or scoop up and place in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Handle and open container in a manner as to prevent spillage. Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Discard contaminated clothes. Keep away from heat, sparks and flame.
- Conditions for Safe Storage** : Keep pesticide in original container. Do not put concentrate or dilute product into food or drink containers. Store in cool, dry place. Do not store diluted spray.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established for Imidacloprid
- Appropriate Engineering Controls** : When handlers use closed systems, enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in the WPS.
- Personal Protective Equipment** : Chemical resistant gloves, long-sleeved shirt and long pants, shoes plus socks, splashproof goggles. An emergency shower and eyewash station should be provided. No respiratory protection required for normal use conditions.

9. Physical and Chemical Properties

- Odor/Appearance** : White liquid with mild, pleasant odor.
- Flash Point, °F** : >100 Degrees C.
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : Not determined
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Dispersible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.113-1.133
- Evaporation Rate(Butyl Acetate = 1)** : Not determined



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Octanol/Water Partition Coefficient : Not determined
pH : 4.0 to 7.0 (1% solution)
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : Not reactive under normal conditions.
Chemical Stability : Stable
Hazardous Decomposition Products : Hydrogen chloride, hydrogen cyanide (hydrocyanic acid), carbon monoxide, and nitrogen oxides.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Excessive heat. For imidacloprid, strong exothermic reaction occurs above 200 Degrees C.
Incompatible Materials : None currently known.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 4,070 mg/kg (female rat); 4,690 mg/kg (male rat)
Acute Toxicity (Dermal LD50) : >5,050 mg/kg (rabbit)
Acute Toxicity Inhalation LC50 : >2.1 mg/L (rat)
Likely Routes of Exposure : Eyes, skin, ingestion and inhalation.
Skin Irritation : Non-irritating
Eye Irritation : Minimally irritating
Skin Sensitization : No skin sensitizing reaction in Guinea pigs.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroid and/or liver.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : Highly toxic to bees.
Persistence and Degradability : Time required for 50% of field-applied imidacloprid to dissipate ranges from 80 days to 2 years.
Bioaccumulative Potential : Low potential.
Mobility in Soil : Low mobility at low application rate and with aging.
Other Adverse Effects : Imidacloprid was found to be hydrolysis stable with a half-life >1 year at pH 5 and 7. Imidacloprid has a photolysis half-life of 39 days at the soil surface, with a range of 26.5-229 days when incorporated into the soil.

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



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UN Proper Shipping Name : Not regulated by DOT, IATA or IMDG.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : None noted
Transport in Bulk : None
Special Precautions for Transportation : None noted
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: N
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 : 5905-577

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Harmful if inhaled.

FIFRA Label Statement : Harmful if swallowed.

FIFRA Label Statement : Avoid breathing spray mist.

FIFRA Label Statement : Remove and wash contaminated clothing before reuse.

FIFRA Label Statement : Avoid contact with eyes or clothing.

FIFRA Label Statement :

16. Other Information

Data of Preparation/Revision : 05-April-2017