

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • **Howard Johnson's Mallet Plus Lambda with Fertilizer**

Synonyms • EPA Reg. No.: 228-610-32802; FertCa

Product Code • FertCa

Product Description • Variable colored granules.

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

Recommended use • Fertilizer plus insecticide for lawns.

Restrictions on use • Avoid release to the environment. Keep out of reach of children and domestic animals. Avoid breathing dust. Avoid contact with eyes, skin and clothing.

Details of the supplier of the safety data sheet

Manufacturer • Howard Johnson's Enterprises, Inc.

9675 S. 60th Street
Franklin, WI 53132
United States
www.hjefertilizer.com

Telephone (General) • (414) 394-3590 - 8:30am - 5:00pm CST

Emergency telephone number

Manufacturer • 1-800-424-9300 - CHEMTREC - Transportation and Non-Transportation related emergencies

Manufacturer • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Carcinogenicity 1A

Label elements

OSHA HCS 2012

DANGER

Hazard statements • May cause cancer.

Precautionary statements

Prevention • Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF exposed or concerned: Get medical advice/attention.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Store locked up.

Other hazards

OSHA HCS 2012

- This product is highly toxic to fish and aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

Composition		
Chemical Name	Identifiers	%
Imidacloprid	CAS:138261-41-3	0.2%
Lambda-cyhalothrin	CAS:91465-08-6	0.04%
Silica, crystalline - quartz	CAS:14808-60-7	> 0.1%
Other ingredients	NDA	> 99%

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms occur.

Skin

- IF ON SKIN: Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- First aid is not expected to be necessary if material is used under ordinary conditions

and as recommended.

Most important symptoms and effects, both acute and delayed

- May cause cancer. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing Media • Avoid heavy hose streams.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • None known.

Hazardous Combustion Products • Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Avoid contact with skin, eyes, and clothing. Wear appropriate personal protective equipment, avoid direct contact. Ventilate enclosed areas. Avoid dust formation and breathing dust.

Emergency Procedures • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

Environmental precautions

- No data available

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Sweep or scoop up spills, dispose of any unusable material in approved landfill. Use appropriate Personal Protective Equipment (PPE)

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Avoid contact with skin, eyes, and clothing. Avoid breathing dust. To minimize dust generation and accumulation, spills should be cleaned up and dust accumulations should be removed promptly. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities

Storage • Store in a cool/low-temperature, well-ventilated, dry place. Keep out of reach of children. Keep container tightly closed. Ventilate enclosed areas. Store locked up.

Incompatible Materials or Ignition Sources • May be corrosive to mild steel. slightly corrosive to aluminum, zinc, or copper and non-corrosive to glass, 304 or 316 stainless steel. May be reactive with halogens and slightly reactive with oxidizing agents, reducing agents, acids, alkalis, moisture.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines			
	Result	ACGIH	NIOSH
Silica, crystalline - quartz (14808-60-7)	TWAs	0.025 mg/m ³ TWA (respirable fraction)	0.05 mg/m ³ TWA (respirable dust)

Exposure Limits Supplemental

OSHA

•Silica, crystalline - quartz (14808-60-7): **Mineral Dusts:** ((30)/(%SiO₂ + 2) mg/m³ TWA, total dust; (250)/(%SiO₂ + 5) mppcf TWA, respirable fraction; (10)/(%SiO₂ + 2) mg/m³ TWA, respirable fraction)

ACGIH

•Silica, crystalline - quartz (14808-60-7): **TLV Basis - Critical Effects:** (lung cancer; pulmonary fibrosis)

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- If airborne dust is present or in case of inadequate ventilation, use appropriate respiratory protection. Use of half/full face air purifying or N95 dust mask is recommended.

Eye/Face

- Wear safety glasses.

Hands

- Wear appropriate gloves.

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact. Use of a full body suit such as Tyvek or Tychem suit is recommended.

General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Variable colored granules.
Color	Varies	Odor	Varies
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	Not relevant
Specific Gravity/Relative Density	No data available	Bulk Density	45 to 80 lb(s)/ft ³
Water Solubility	No data available	Viscosity	Not relevant
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			

Flash Point	Not relevant	UEL	No data available
LEL	No data available	Flame Duration	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Extreme heat, high humidity or moisture. Avoid contact with moisture. If Urea is present, slow hydrolysis may produce acids corrosive to metals.

Incompatible materials

- Material may be incompatible with halogens, oxidizing agents, reducing agents, acids, alkalis, moisture, potassium chlorate, potassium nitrate, sodium nitrate, sodium hypochlorite, metal chlorates, strong bases. If Urea is present may be corrosive to mild steel and slightly corrosive to aluminum, zinc, or copper.

Hazardous decomposition products

- May release ammonia, oxides of sulfur, oxides of nitrogen, and oxides of carbon. Flammable/toxic gases will form at elevated temperatures by thermal decomposition.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Imidacloprid (0.2%)	138261-41-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • >450 mg/kg; Inhalation-Rat • >5 mg/L; Skin-Rat LD50 • >5000 mg/kg
Lambda-cyhalothrin (0.04%)	91465-08-6	Acute Toxicity: Ingestion/Oral-Rat, adult female LD50 • 55 mg/kg; Inhalation-Rat LC50 • 0.52 mg/m ³ ; Skin-Rat LD50 • >2000 mg/kg

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met

STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Not classified - data lacking

Potential Health Effects

Inhalation

Acute (Immediate)

- Exposure to dust may cause mild respiratory irritation.

Chronic (Delayed)

- Repeated or prolonged inhalation of dust may cause respiratory irritation. Repeated and prolonged exposure to crystalline silica containing materials may cause irritation and/or lung damage silicosis, fibrosis, inflammation, cancer.

Skin

Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Eye

Acute (Immediate)

- Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available

Other

Chronic (Delayed)

- Repeated overexposure to imidacloprid, may affect heart, thyroid, blood chemistry, and liver. For Lambda-Cyhalothrin, contact with exposed skin may result in temporary itching, tingling, burning or numbness, called paresthesia. The symptoms normally disappear within 24 hours. Face and genital areas are especially susceptible to this effect. Paresthesia involving the face is also known as "subjective facial sensation" or SFS. Repeated overexposure to Lambda-Cyhalothrin may effect the liver and central nervous system.

Mutagenic Effects

- Imidacloprid mutagenicity studies, taken collectively, demonstrate that imidacloprid is not genotoxic or mutagenic. Lambda-Cyhalothrin did not demonstrate mutagenic effects in animal tests.

Carcinogenic Effects

- Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. Imidacloprid did not cause cancer in laboratory animal studies. Lambda-Cyhalothrin did not cause cancer in laboratory animal studies.

Carcinogenic Effects		
	CAS	IARC
Silica, crystalline - quartz	14808-60-7	Group 1-Carcinogenic

Reproductive Effects

- Imidacloprid produced reduced mean body weights and body weight gains in a two-generation reproduction study in rats. No other reproductive effects were observed. Lambda-Cyhalothrin is not a reproductive toxicant.

Section 12 - Ecological Information

Toxicity

Components		
Imidacloprid (0.2%)	138261-41-3	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 211 mg/L [Acute] 96 Hour(s) LC50 <i>Leuciscus idus</i> 237 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 85 mg/L [Acute]
		Aquatic Toxicity-Fish: NOEC <i>Fathead minnow</i> 0.00062 mg/L [Chronic] 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.00021 mg/L [Acute]

Lambda-cyhalothrin (0.04%)	91465-08-6	96 Hour(s) LC50 <i>Blue gill</i> 0.00021 mg/L [Acute] Aquatic Toxicity-Crustacea: <i>Daphnia magna</i> 0.0000023 mg/L [MATC Chronic] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.00036 mg/L [Acute] LC50 <i>Mysid shrimp</i> 0.0000049 mg/L [Acute]
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Persistence and degradability

- Hydrolysis half-life of imidacloprid is greater than 30 days at pH 7 and 25°C. The aqueous photolysis half-life is less than 3 hours. The soil surface photolysis of imidacloprid has a half-life of 39 days, and in soil, the half-life ranged from 26 to 229 days. Lambda-Cyhalothrin is moderately persistent in the soil. The reported half-lives range from 4 to 12 weeks. It shows a high affinity for soil with a reported Koc of 180,000. Lambda-Cyhalothrin has extremely low water solubility and is tightly bound to soil.

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Other adverse effects

- No studies have been found.

Potential Environmental Effects

- This product is highly toxic to fish and aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN3077	Bulk Packaging: Environmentally hazardous substance, solid, n.o.s (Lambda-cyhalothrin, Imidacloprid)	9	III	Marine Pollutant
IMO/IMDG	UN 3077	Packaging 5 kg or greater: Environmentally hazardous substance, solid, n.o.s (Lambda-cyhalothrin, Imidacloprid)	9	III	Marine Pollutant
IATA/ICAO	UN 3077	Packaging 5 kg or greater: Environmentally hazardous substance, solid, n.o.s (Lambda-cyhalothrin, Imidacloprid)	9	III	Acute Aquatic Toxicity

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Chronic

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals • Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear long sleeved shirt, long pants, shoes and socks.

First Aid • IF IN EYES Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Environmental Hazards • This product is highly toxic to fish and aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Inventory		
Component	CAS	TSCA
Imidacloprid	138261-41-3	No
Lambda-cyhalothrin	91465-08-6	No
Silica, crystalline - quartz	14808-60-7	Yes

Section 16 - Other Information

Revision Date • 09/November/2015

Last Revision Date • 09/November/2015

Preparation Date • 09/November/2015

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