

# Material Safety Data Sheet

## Beleaf® 50 SG Insecticide

SDS #: 6225-A  
Revision Date: 2012-01-05  
Version 1.01



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	Beleaf® 50 SG Insecticide
<b>Formula code</b>	6225
<b>Active Ingredient(s)</b>	Flonicamid
<b>Synonyms</b>	N-(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide
<b>Chemical Family</b>	Pyridinecarboxamide Insecticide
<b>Manufacturer</b> FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com	<b>Emergency telephone number</b>  Medical Emergencies: (800) 331-3148 (U.S.A. & Canada) +1 (651) 632-6793 (All Other Countries - Collect) For leak, fire, spill or accident emergencies, call: +1 800.424.9300 (CHEMTREC - U.S.A.) +1 703.527.3887 (CHEMTREC - Collect - All Other Countries)

### 2. Hazards identification

<b>Appearance</b>	solid granules
<b>Physical state</b>	dry powder
<b>Odor</b>	mild
<b>Flammable properties</b>	Combustible material
<b>Potential health effects</b>	
<b>Acute effects</b>	
<b>Eyes</b>	May cause slight irritation.
<b>Skin</b>	Does not pose a potential of skin irritation and sensitization.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Chronic effects</b>	Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons. See Section 11 for additional Toxicological Information.
<b>Environmental hazard</b>	See Section 12 for additional Ecological Information.

### 3. Composition/information on ingredients

**Hazardous ingredients**

Chemical Name	CAS-No	Weight %
Flonicamid	158062-67-0	50
Formaldehyde condensate	RR-24503-4	1 - 5
Diocetyl sodium sulfosuccinate	577-11-7	1 - 5

**4. First aid measures**

Eye contact	Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.
Skin contact	Take off contaminated clothing. Wash skin with soap and water. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. If symptoms persist, call a physician.
Ingestion	If swallowed, call a poison control center or doctor immediately. Drink 1 or 2 glasses of water. Do not induce vomiting or give anything by mouth to an unconscious person.

**5. Fire-fighting measures**

<b>Flammable properties</b>	Combustible material
<b>Sensitivity to Mechanical Impact</b>	not applicable
<b>Sensitivity to Static Discharge</b>	not applicable
<b>Suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. If necessary: Use water spray or fog; do not use straight streams.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective suit. Isolate fire area. Evaluate downwind.
<b>NFPA</b>	
Health Hazard	1
Flammability	1
Stability	0
Special Hazards	-

**6. Accidental release measures**

<b>Personal precautions</b>	For personal protection see section 8., Isolate and post spill area, Remove all sources of ignition, Wear suitable protective clothing, gloves and eye/face protection.
<b>Environmental precautions</b>	Keep people and animals away from and upwind of spill/leak, Keep material out of lakes, streams, ponds, and sewer drains
<b>Methods for containment</b>	Cover powder spill with plastic sheet or tarp to minimize spreading. Use a wet sweeping compound or water to prevent dust formation. Dike far ahead of spill to collect runoff water. Vacuum, shovel or pump waste into a drum and label contents for disposal.
<b>Methods for cleaning up</b>	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Dispose of waste as indicated in Section 13.

**Other** For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

## 7. Handling and storage

**Handling** Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Reference to other sections.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store in original container only.

## 8. Exposure controls/personal protection

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Occupational exposure controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits, When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Personal Protective Equipment

**General Information** Clean water should be available for washing in case of eye or skin contamination. Wash hands prior to eating, drinking chewing gum or using tobacco. Shower or bathe at the end of working.

**Respiratory protection** For dust, splash, mist or spray exposures wear a filtering mask.

**Eye/face protection** For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.

**Skin and body protection** Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

**Hand protection** Protective gloves

**Hygiene measures** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

## 9. Physical and chemical properties

<b>Appearance</b>	solid granules
<b>Color</b>	light brown
<b>Physical state</b>	dry powder
<b>Odor</b>	mild
<b>pH</b>	6.0 @ 25 °C (1% solution)
<b>Melting Point/Range</b>	No information available
<b>Freezing point</b>	No information available
<b>Boiling Point/Range</b>	not applicable
<b>Flash Point</b>	not applicable
<b>Evaporation rate</b>	not applicable
<b>Autoignition Temperature</b>	not applicable
<b>Flammable properties</b>	Combustible material
<b>Vapor pressure</b>	No information available

Vapor density	No information available
Density	33.5 lb/cu ft (loose); 37.2 lb/cu ft (tapped)
Water solubility	Soluble in water
Percent volatile	No information available
Partition coefficient:	not applicable
Viscosity	No information available
Oxidizing properties	not applicable

## 10. Stability and reactivity

Stability	Stable
Conditions to avoid	Heat, flames and sparks
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous polymerization	Hazardous polymerization does not occur

## 11. Toxicological information

Eye contact	May cause temporary eye irritation (rabbit).
Skin contact	Non-irritating during normal use (rabbit).
LD50 Dermal	Similar material > 2,000 mg/kg (rat)
LD50 Oral	> 2,000 mg/kg (rat)
LC50 Inhalation:	> 5.36 mg/L 4 hr (rat)
Sensitization	Based on a similar formulation, this product is not expected to produce skin sensitization.
<b>Chronic Toxicity - Other Ingredient(s)</b>	
Chronic Toxicity	Prolonged exposure may cause chronic effects Repeated contact may cause allergic reactions in very susceptible persons See Section 11 for additional Toxicological Information
Carcinogenicity	Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential
Mutagenicity	Not mutagenic.
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards at concentrations >0.1%
Developmental Toxicity	Flonicamid: Not teratogenic in animal studies.

## 12. Ecological information

### Ecotoxicity

#### Flonicamid (158062-67-0)

Active Ingredient(s)	Duration	Species	Value	Units
Flonicamid Technical	96 h LC50	Bluegill sunfish, Rainbow trout	>100	mg/L
	96 h LC50	Sheepshead minnow	>120	mg/L

	48 h LC50	Daphnia magna	>100	mg/L
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<b>Other Ingredient(s)</b>				
No known effect based on information supplied.				
<b>Chemical Name</b>	<b>Toxicity to algae</b>	<b>Toxicity to fish</b>	<b>Toxicity to microorganisms</b>	<b>Toxicity to daphnia and other aquatic invertebrates</b>
Dioctyl sodium sulfosuccinate		LC50 20-40 mg/L Oncorhynchus mykiss 96 h LC50 < 24 mg/L Oncorhynchus mykiss 96 h LC50 37 mg/L Lepomis macrochirus 96 h		EC50 36 mg/L 48 h

**Environmental Fate**

**Persistence and degradability** Based on a similar formulation, biodegradation in soil is 1 - 10 days.

**13. Disposal considerations**

**Waste disposal methods** Can be incinerated, when in compliance with local regulations. The appropriate regulatory agencies should be contacted prior to disposal.

**Contaminated packaging** Dispose of in accordance with local regulations. Completely empty bag into application equipment. When completely empty, offer for recycling if available, or dispose of bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**14. Transport information**

**DOT** Not regulated in transportation.

**Packaging Type** Non-Bulk

**TDG** Not regulated in transportation.

**ICAO/IATA** Not regulated in transportation.

**IMDG/IMO** Not regulated in transportation.

**15. Regulatory information**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

- Acute Health Hazard Yes
- Chronic Health Hazard Yes
- Fire Hazard no
- Sudden Release of Pressure Hazard no
- Reactive Hazard no

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**International Regulations**

**Mexico - Grade**

No information available

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Non-controlled

**16. Other information**

**Revision Date:** 2012-01-05  
**Reason for revision:** (M)SDS sections updated.

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**End of Material Safety Data Sheet**