SAFETY DATA SHEET Beleaf® 50 SG Insecticide

SDS # : 6225-A Revision date: 2016-05-26 Format: NA Version 1.08



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Name	Beleaf® 50 SG Insecticide
Other means of identification	
Product Code(s)	6225-A
Synonyms	FLONICAMID: N-cyanomethyl-4-(trifluoromethyl)nicotinamide (IUPAC name); N-(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide (CAS name)
Active Ingredient(s)	Flonicamid
Chemical Family	Pyridinecarboxamide Insecticide
Recommended use of the chemical	and restrictions on use
Recommended Use:	Insecticide
Restrictions on Use:	Use as recommended by the label
Manufacturer Address	FMC Corporation 2929 Walnut Street Philadelphia, PA 19104 (215) 299-6000 (General Information) msdsinfo@fmc.com (E-Mail General Information)
Emergency telephone number	
	Medical Emergencies: 1 800 / 331-3148 (PROSAR - U.S.A. & Canada) 1 651 / 632-6793 (PROSAR - 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

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity (single exposure) Category 2		Specific target organ toxicity (single exposure)		Category 2
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EMERGENCY OVERVIEW

Warning

Hazard Statements H371 - May cause damage to organs



Precautionary Statements - Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product **Precautionary Statements - Response** P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

May cause moderate eye irritation. May form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family

Pyridinecarboxamide Insecticide.

Chemical name	CAS-No	Weight %
Flonicamid	158062-67-0	50

Synonyms are provided in Section 1.

4. FIRST AID MEASURES				
Eye Contact	Hold eyes 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. Call a poison control center or doctor for further treatment advice.			
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.			
Inhalation	Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) 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 Have person sip a			
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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 give anything by mouth to an unconscious person. Call a physician or poison control center immediately. 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 to an unconscious person.

Most important symptoms and	None k
effects, both acute and delayed	

Indication of immediate medical attention and special treatment needed, if necessary

N	or	ne	kr	10	W	n	

Treat symptomatically.

5. FIRE-FIGHTING MEASURES **Suitable Extinguishing Media** Carbon dioxide (CO₂). Foam. Dry chemical. If necessary: Use water spray or fog; do not use straight streams. Specific Hazards Arising from the Combustible material Chemical **Hazardous Combustion Products** Thermal decomposition can lead to release of irritating and toxic gases and vapors. Explosion data Sensitivity to Mechanical Impact Not sensitive. Sensitivity to Static Discharge Not sensitive. Protective equipment and Wear self-contained breathing apparatus and protective suit. Isolate fire area. Evaluate precautions for firefighters downwind. 6. ACCIDENTAL RELEASE MEASURES **Personal Precautions** 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. For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 Other "Product and Company Identification" above. **Environmental Precautions** Keep people and animals away from and upwind of spill/leak.

Methods for ContainmentCover 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.

Methods for cleaning up Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

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. Keep/store only in original container.
Incompatible products	None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

Appropriate engineering controls

Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.			
Individual protection measures, suc	h as personal protective equipment			
Eye/Face Protection	For dust, splash, mist or spray exposure, wear chemical protective goggles.			
Skin and Body Protection	Wear long-sleeved shirt, long pants, socks, and shoes.			
Hand Protection	Protective gloves			
Respiratory Protection	For dust, splash, mist or spray exposures wear a filtering mask.			
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.			
General information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Annonion	Cropulae Light brown
Appearance Bhysical State	Granules, Light brown
Physical State Color	Dry powder Light brown
Odor	Mild
Odor threshold	No information available
• • • • • • • • • • • • • • • • • • • •	6.0 @ 25 °C (1% solution)
pH Molting point/freezing point	Not applicable
Melting point/freezing point	No information available
Boiling Point/Range	Not applicable
Flash point	Not applicable No information available
Evaporation Rate	No information available
Flammability (solid, gas)	NO INOTTATION available
Flammability Limit in Air	No information available
Upper flammability limit: Lower flammability limit:	No information available
	No information available
Vapor pressure	No information available
Vapor density Density	33.5 lb/cu ft (loose); 37.2 lb/cu ft (tapped)
Specific gravity	No information available
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	No information available
Durk density	

10. STABILITY AND REACTIVITY

Chemical StabilityStable under recommended storage conditions.Possibility of Hazardous ReactionsNone under normal processing.Hazardous polymerizationHazardous polymerization does not occur.					
Conditions to avoidHeat, flames and sparksIncompatible materialsNone known.Hazardous Decomposition ProductsThermal decomposition can lead to release of irritating gases and vapors.					
11. TOXICOLOGICAL INFORMATION					

Product Information

LD50 Oral LD50 Dermal LC50 Inhalation	Similar mater	> 2,000 mg/kg (rat) Similar material: > 2,000 mg/kg (rat) > 5.36 mg/L 4 hr (rat)					
Serious eye damage/eye Skin corrosion/irritation Sensitization	Non-irritating	Moderately irritating. Non-irritating during normal use (rabbit). Based on a similar formulation, this product is not expected to produce skin sensitization.					
Information on toxicological effects							
Symptoms	Symptoms No information available.						
Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Chronic toxicity							
Mutagenicity		Flonicamid: Not genotoxic in laboratory studies.					
Carcinogenicity		Flonicamid: Suggestive evidence of carcinogenicity (mouse bronchioloalveolar tumors), but					
		not sufficient to assess human carcinogenic potential.					
Neurological effects		Flonicamid: Not neurotoxic.					
Reproductive toxicity		Flonicamid: No toxicity to reproduction in animal studies.					
Developmental toxicity		Flonicamid: Not teratogenic in animal studies.					
STOT - single exposure		May cause damage to organs: See listed target organs below.					
STOT - repeated exposur							
Target organ effects		iver, kidney, Hematopoiet	ic system.				
Neurological effects		Not neurotoxic.					
Aspiration hazard	No information						
Chemical name	ACGIH	IARC	NTP	OSHA			
Flonicamid		Group 2A					
158062-67-0							

Legend: IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans

12. ECOLOGICAL INFORMATION

Ecotoxicity

Flonicamid (158062-67-0)				
Active Ingredient(s)	Duration	Species	Value	Units
Flonicamid Technical	96 h LC50	Fish	>100	mg/L
	48 h EC50	Crustacea	>100	mg/L
	96 h EC50	Algae	>100	mg/L
	21 d NOEC	Fish	10	mg/L
	21 d NOEC	Crustacea	3.1	mg/L

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Persistence and degradabilityFlonicamid: Non-persistent. Does not readily hydrolyze. Readily biodegradab>70% reduction in ≤ 28 days).				
Bioaccumulation	Flonicamid: The substance does not have a potential for bioconcentration.			
Mobility	Flonicamid: Very mobile; has potential to reach groundwater.			
	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. Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.			
Contaminated Packaging	Dispose of in accordance with local regulations. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. 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.			
	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions. Do not reuse or refill this container.			
14. TRANSPORT INFORMATION				
DOT	This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.			
TDG	Not regulated in transportation.			
ICAO/IATA	Not regulated in transportation.			

15. REGULATORY INFORMATION

Not regulated in transportation.

U.S. Federal Regulations

<u>SARA 313</u>

IMDG/IMO

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde 50-00-0	100 lb			X
Naphthalene 91-20-3	100 lb	X	Х	X

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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

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Formaldehyde	100 lb	100 lb
50-00-0	45.4 kg	
Naphthalene	100 lb	
91-20-3	45.4 kg	

FIFRA Information

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

International Inventories

Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Formaldehyde	100 2500 kg/yr	100 kg/yr

WHMIS Statement

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

NFPA	Health Hazards 1	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 1	Flammability 1	Physical hazard 0	Personal Protection X

Revision date: Reason for revision: 2016-05-26 (M)SDS sections updated

Disclaimer

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