# **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

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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 effects, both acute and delayed

None known.

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

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. If necessary: Use water spray or fog; do not

use straight streams.

Specific Hazards Arising from the

Chemical

Combustible material

Hazardous Combustion Products Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data** 

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Not sensitive.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Isolate fire area. Evaluate 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.

Other For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1

"Product and Company Identification" above.

Environmental Precautions Keep people and animals away from and upwind of spill/leak.

Methods for Containment 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.

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.

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# **Appropriate engineering 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.

### Individual protection measures, such 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

**Appearance** Granules, Light brown

Physical State Dry powder Color Light brown

**Odor** Mild

Odor threshold No information available pH No information available 6.0 @ 25 °C (1% solution)

Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point Not applicable

Evaporation Rate
No information available
Plammability (solid, gas)
No information available

Flammability Limit in Air

Reactivity

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

**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 No information available **Decomposition temperature** No information available Viscosity, kinematic Viscosity, dynamic No information available **Explosive properties** No information available **Oxidizing properties** No information available Molecular weight No information available No information available **Bulk density** 

# 10. STABILITY AND REACTIVITY

None under normal use conditions.

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**Chemical Stability** Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks

Incompatible materials None known.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors.

### 11. TOXICOLOGICAL INFORMATION

### **Product Information**

**LD50 Oral** > 2,000 mg/kg (rat)

LD50 Dermal Similar material: > 2,000 mg/kg (rat)

**LC50 Inhalation** > 5.36 mg/L 4 hr (rat)

Serious eye damage/eye irritation Moderately irritating.

**Skin corrosion/irritation**Non-irritating during normal use (rabbit).

**Sensitization** Based on a similar formulation, this product is not expected to produce skin sensitization.

# Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic toxicity** Flonicamid: Repeated contact may cause allergic reactions in very susceptible persons.

**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 exposure Not classified.

**Target organ effects** Flonicamid: Liver, kidney, Hematopoietic system.

Neurological effectsFlonicamid: Not neurotoxic.Aspiration hazardNo information available.

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 degradability Flonicamid: Non-persistent. Does not readily hydrolyze. Readily biodegradable (meets the

>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/IATANot regulated in transportation.IMDG/IMONot 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 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 hazardYesChronic health hazardYesFire hazardNoSudden release of pressure hazardNoReactive HazardNo

# **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	X	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: 2016-05-26

Reason for revision: (M)SDS sections updated

**Disclaimer** 

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End of Safety Data Sheet