SAFETY DATA SHEET CARBINE® 50 WG INSECTICIDE

SDS #: 6226-A

Revision date: 2016-05-26

Format: NA Version 1.03



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name CARBINE® 50 WG INSECTICIDE

Other means of identification

Product Code(s) 6226-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

Alternate Commercial Name Turbine

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

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

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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. F	IRST	AID	MEA	٩SU	IRES	3
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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

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.

Most important symptoms and None known.

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effects, both acute and delayed

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

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

Chemical

Hazardous Combustion Products

Combustible material

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. 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 Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face

protection. For personal protection see section 8.

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. Keep material out of lakes,

streams, ponds, and sewer drains. See Section 12 for additional Ecological Information.

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.

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.

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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 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Solid Granules **Appearance** Dry powder **Physical State** Color Light brown Mild Odor

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

Not applicable Melting point/freezing point

Boiling Point/Range No information available

Not applicable Flash point

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

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available No information available Vapor pressure Vapor density No information available

33.5 lb/cu ft (loose); 37.2 lb/cu ft (tapped) **Density**

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

10. STABILITY AND REACTIVITY

None under normal use conditions. Reactivity

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

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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 > 2002 2,000 mg/kg (rat)

LD50 Dermal Similar material: > 2002 2,000 mg/kg (rat)

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

Serious eye damage/eye irritation Moderately irritating.

Skin corrosion/irritationNon-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 effects
Aspiration hazard
Flonicamid: Not neurotoxic.
No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Flonicamid		Group 2A		
158062-67-0				

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	ma/l

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

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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. 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. 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 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

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

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

Chemical na	me Hazardous Substance	s RQs Extremely Hazardous Substances RQs
Formaldehyd	de 100 lb	100 lb
50-00-0	45.4 kg	
Naphthalen	ie 100 lb	
91-20-3	45.4 kg	

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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:

Causes substantial, but temporary, eye injury. Harmful is swallowed or absorbed through the skin.

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

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(M)SDS sections updated Reason for revision:

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Prepared By:

FMC Corporation

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End of Safety Data Sheet