

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Trade Name: Flonicamid 50% WDG  
 Name: Flonicamid 50% WDG  
 Chemical Family Pyridinecarboxamide Insecticide  
 Alternate Commercial Name Turbine

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
**1.2.1 Relevant identified uses**

Main use category : Control pests on certain agricultural crops

**1.3. Details of the supplier of the safety data sheet**

Willowood Chemicals Private Limited  
 Plot No. 69/P, Village - Manjusar, Taluka - Savli,  
 Dist. Vadodara – 391775  
 India  
 Tele Fax Number : 91 2667 264701  
 Email: info@shreejipesticides.com  
 Web address: https://www.willowood.com

**1.4. Emergency telephone number**

**In case of Poisoning: Emergency number**  
 Poison Information Centre 0824468946, 02667-292921

**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture**

Specific target organ toxicity (single exposure) Category 2

**2.2. Label Elements:**

Warning  
 Hazard Statements  
 H371 - May cause damage to organs Symbol(s)


**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.

**2.3. Adverse Human Health Effects and Symptoms:**

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

**SECTION 3: Composition/Information on Ingredients**

CAS	Chemical name	Concentration	EC No.
158062-67-0	Flonicamid	50%min	NA

**SECTION 4: FIRST AID MEASURES****4.1 Description of 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 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.

**Indication of immediate medical attention and special treatment needed, if necessary**  
Treat symptomatically.

**SECTION 5: FIRE FIGHTING MEASURES****5.1 Extinguishing Media:**

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical. If necessary: Use water spray or fog; do not use straight streams.

**5.2 Specific Hazards Arising from the Chemical:**

Specific hazards : Combustible material.

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

**Sensitivity to Mechanical Impact** Not sensitive.

**Sensitivity to Static Discharge** Not sensitive.

**5.3 Advice for fire-fighters:****Protective equipment and precautions for firefighters**

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Protective Precautions, Protective Equipment and Emergency Procedures:**

**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.

**6.2 Environmental Precautions:**

**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.

**6.3 Methods and Material For Containment and Cleaning Up:**

**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.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions To Be Taken in Handling:**

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

**7.2 Precautions To Be Taken in Storing:**

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.

**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION****8.1 Control parameters:**



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

### 8.2 Exposure Controls:

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

### 8.3 Personal protection 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off-white to light brown columnar particles
Content of a.i.	≥50%
PH	6.0-10.0
Water	≤3%
Disintegration time	≤90s
Wetting time	≤60s
Dispersion	≥80%

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Possibility of Hazardous Reactions:

None under normal use conditions.

### 10.2 Chemical Stability:

Stable at ambient temperature and under normal conditions of use.

### 10.3 Conditions to Avoid:

Heat, flames and sparks

### 10.4 Incompatible Materials:

oxidizing agents

### 10.5 Hazardous decomposition products

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

## SECTION 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/irritation** Non-irritating during normal use (rabbit).

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

## SECTION 12: ECOLOGICAL INFORMATION

### Flonicamid (158062-67-0)

Active Ingredient(s)	Duration	Species	Value
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



## Flonicamid 50% WDG

### Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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**Persistence and degradability** Flonicamid: Non-persistent. Does not readily hydrolyze. Readily biodegradable (meets the >70% reduction in  $\leq 28$  days).

**Bioaccumulation** Flonicamid: The substance does not have a potential for bioconcentration.

**Mobility** Flonicamid: Very mobile; has potential to reach groundwater.

#### SECTION 13: DISPOSAL

**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. 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

#### SECTION 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.

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

#### SECTION 15: ECOLOGICAL INFORMATION

**NFPA Health Hazards 1 Flammability 1 Instability 0 Special Hazards -**

**HMIS Health Hazards 1 Flammability 1 Physical hazard 0 Personal Protection X**

#### SECTION 16: OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, since the conditions of the operations mentioned are beyond our control. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Willowood disclaims any liability for loss or damage resulting from the use of these data, information or suggestions.

Other data

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