

MATERIAL SAFETY DATA SHEET

Flonicamid 20% WDG

1. PRODUCT IDENTIFICATION

Product Name: Flonicamid 20% WDG
 Common Name: Flonicamid
 Chemical Family: selective feeding blocker
 Chemical Formula: $C_9H_6F_3N_3O$
 Chemical Name: N-(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide
 CAS No.: 158062-67-0
 Product Use: Insecticide

2. COMPANY IDENTIFICATION

Exporter:

CHICO CROP SCIENCE CO., LTD.

Add: Rm 903, Unit C, Tian An International Bldg., Renmin South Rd.,
 Shenzhen, China.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>CAS Registry Number</u>	<u>Typical Wt. w/w</u>
Flonicamid	158062-67-0	20%
Inert	-	to balance

4. HAZARDS IDENTIFICATION

Emergency Overview

Light yellow columnar particles

CAUTION!

KEEP OUT OF REACH OF CHILDREN

MAY CAUSED SKIN SLIGHT IRRITATION

MAY CAUSED EYE SLIGHT IRRITATION

Potential Health effects

Dermal contact, ingest and inhalation of the product are the primary routes to induce potential adverse health effects. Inhalation of aerosol during application of the product as part of its end use is another potential route of entry. Eye and skin irritation may occur from contact with the liquid or spray mixture.

5. FIRST AID MEASURES

If swallowed: Rinse mouth with water. Never give anything by mouth to an unconscious person. Should be send to the hospital treatment immediately.

If in eye: Hold eyelids apart. Immediately rinse eyes with a large amount of running water. Go to a doctor.

If on skin: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

If Inhaled: Move victim from contaminated area to fresh air. Keep patient calm, apply artificial respiration if necessary. Seek medical attention.

Notes to Physician: There is no specific antidote, Treat symptomatically.

6. FIRE FIGHTING MEASURES

Fire and explosive Properties

Auto-Ignition Temperature	Not available
Flash Point	Not available

Extinguishing Media

Water fog, Carbon Dioxide, Dry Chemical, Foam.

Fire Fighting Instructions

The product is not flammable. But if firing, fire fighters and others who may be exposed to products of combustion should wear full firefighting turn out gear and self-contained

breathing apparatus. Firefighting equipment should be thoroughly decontaminated after use. Person who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

7. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Stop the leak, if possible. Ventilate the space involved. Absorb, sweep up, place in container for disposal. Shut off or remove all ignition sources. Prevent waterway contamination. Construct a dike to prevent spreading. Protect works with water spray. Collect run-off water and transfer to drums or tanks for later disposal.

8. HANDLING AND STORAGE

Handling

Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye irritation. Do not breathe gas or allow to get in eyes, on skin, or on clothing. Wash hands, arm and face thoroughly with soap and warm water after use and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse. Do not contaminate feed or food items. Keep out of reach of children.

Storage

Store in a cool dry and air ventilating warehouse and protected from light. Avoid contacting with food, feed stuff and seed.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection

Goggles and full-face shield should be used when needed to prevent liquid from face and getting into the eyes.

Skin Protection

Avoid skin contact. Use chemical-resistant gloves, and wear long sleeves and trousers to prevent dermal exposure.

Respiratory Protection

Under normal handling conditions no respiratory protection is needed. However, if needed to prevent respiratory irritation, either a respirator approved for dusts and mists, or one approved for pesticides.

10. PHYSICAL AND CHEMICAL PROPERTIES (Technical)

Color:	White
Physical state:	Powder
Odor:	Odourless
Melting point	157.5 °C
Boiling point:	N/A
Vapor pressure:	2.55×10^{-3} mPa (25 °C)
Solubility in water and solvents:	In water 5.2 g/l (20 °C). In hexane 0.0002, n-octanol 3.0, methanol 110.6, toluene 0.55, isopropanol 15.7, dichloromethane 4.5, acetone 186.7, toluene 0.55 , ethyl acetate 33.9, acetonitrile 146.1 (all in g/l, 20 °C).
Partition coefficient:	$K_{ow} \log P = 0.3$

11. STABILITY AND REACTIVITY

Stability

Stable to heat, light, hydrolysis. (For tech.)

Hazardous Polymerization

Does not occur.

Incompatibility

This product is not compatible with strong oxidizing substances.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides, Hydrogen chloride gas

12. TOXICOLOGICAL INFORMATION (Technical)

Acute Oral:	Acute oral LD ₅₀ for male rats 884, female rats 1768 mg/kg.
Acute Dermal:	Acute percutaneous LD ₅₀ for rats >5000 mg/kg.
Irritation:	Non-irritating to skin and eyes (rabbits).
Sensitization:	Not a skin sensitiser (guinea pigs).
Long-term Studies:	Negative in Ames test.

13. ECOLOGICAL INFORMATION

Ecotoxicological Information

Effects on Birds: Acute oral LD₅₀ for male and female quail >2000 mg/kg. Dietary LC₅₀ for quail >5000 ppm.

Effects on Fish: LC₅₀ (96 h) for rainbow trout and carp >100 mg/l.

Bees: LD₅₀ (oral) >60.5 µg/bee; (contact) >100 µg/bee.

Daphnia: EC₅₀ (48 h) >100 mg/l.

Algae: ErC₅₀ (96 h) >100 mg/l.

Chemical Fate Information

Soil/Environment: DT₅₀ (4 soils) 0.7–1.8 d (mean 1.1 d). Stable to hydrolysis (pH4, 5, 7). DT₅₀ in water 9.0 d (pH9, 50 °C), 204 d (pH7, 50 °C). Photolysis DT₅₀ (water) 267 d.

14. DISPOSAL CONSIDERATIONS

Waste Disposal

Pesticide wastes are acutely hazardous. Do not reuse product containers. Dispose product containers, waste containers, residues according local health and environmental regulations.

15. TRANSPORT INFORMATION

UN Number: 3077

Dangerous Goods Class: 9

Packing Group: III

16. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

17. OTHER INFORMATION

The information contained herein relates only to the specific material identified. We believe that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the reliability or completeness of the information. Urge persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

Chico Crop Science Co., Ltd.