

## Material Safety Data Sheet

### SECTION 1 IDENTIFICATION

**Product Name:** flonicamid 30% + acetamiprid 20%WG

**Chemical name:** [(E)-N-[(6-Chloro-3-pyridyl)methyl]-N-cyano-N-methylacetamidine];  
N-cyanomethyl-4-(trifluoromethyl)nicotinamide

**Other means of identification:** /

**Recommended use of the chemical and restrictions on use:** This material is a kind of pesticide.

#### Company / Undertaking Identification

Company Name: Shandong Kangqiao Bio-technology Co., Ltd.

Address: Lvyi Industrial Park, 256500, Boxing County, Shandong Province, China

Phone: +86-0532-85624007

Fax: +86-0532-85699108

Email: registration@kangqiaobio.com

Website: www.kqbiotech.com

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Acute oral toxicity Category 3

Acute Inhalation Toxicity - Dusts and Mists Category.

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity (single exposure) Category 2

#### GHS Label elements, including precautionary statements



**Signal word:** Danger.

#### Hazard statement(s):

H319 - Causes serious eye irritation

H371 - May cause damage to organs

#### Precautionary statement(s):

#### Prevention:

P264 - Wash face, hands and any exposed skin thoroughly after handling

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P270 - Do not eat, drink or smoke when using this product

#### Response:

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

**Storage:**

P405 - Store locked up

**Disposal:**

P501 - Dispose of contents/container according to label directions

**Other hazards which do not result in classification: /**

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Flonicamid	158062-67-0	30
Acetamiprid	135410-20-7	20
Co-formulants	/	Up to 100%

### SECTION 4 FIRST AID MEASURES

**Description of necessary first aid measures**

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Immediately induce vomiting and be sent to the hospital for diagnosis and treatment, with targeted treatment.

**Most important symptoms and effects, both acute and delayed: /**

**Indication of immediate medical attention and special treatment needed: /**

### SECTION 5 FIRE-FIGHTING MEASURES

**Dangerous characteristics:** Flammable in case of open flame and high heat.

**Harmful combustion products:** Carbon dioxide.

**Suitable extinguishing media:** Foam. Dry chemical powder. Carbon dioxide.

**Special protective actions for fire-fighters:** Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Emergency treatment:** Quickly evacuate the contaminated area to the safe area, and quarantine, strictly restrict access, cut off the fire source. It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus, fire and poison proof clothing, and fire protection boots. Do not contact the leak directly. Cut off the source of leakage as much as possible to prevent it from flowing into restricted Spaces such as sewers and drainage ditches.

**Elimination method:** Minor spills: absorption with sand. Major spills: build a dike or dig a pit for containment. They are collected in dedicated containers and then either collected, transferred, recycled or disposed of harmlessly.

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe handling:** Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with oxidants and alkalis. When handlings, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling.

**Conditions for safe storage, including any incompatibilities:** Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Explosion-proof lighting and ventilation facilities are adopted. It is prohibited to use mechanical equipment and tools that are easy to produce sparks. Appropriate fire fighting equipment should be equipped. The storage area should be equipped with leak emergency treatment equipment and appropriate holding materials. Observe manufacturer's storage and handling recommendations contained within this MSDS.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Maximum allowable concentration:** No standard has been established

**Monitoring method:** High performance liquid chromatography

**Appropriate engineering controls:** The production process is closed to provide adequate local exhaust.

**Respiratory system protection:** Filter gas mask (half mask) can be worn in high concentration exposure, and air respirator or oxygen respirator should be worn in emergency rescue or evacuation.

**Eye/face protection:** Safety glasses with side shields. Chemical goggles.

**Skin protection:** Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber.

**Other protection:** Prohibit smoking, eating and drinking water in the workplace, and avoid drinking alcoholic beverages before work. After work, clean thoroughly, maintain good hygiene habits, pay attention to personal hygiene.

**Thermal hazards:** /

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	white uniform granule
<b>Odour</b>	/
<b>Odour Threshold</b>	/
<b>pH</b>	6.0-9.0
<b>Boiling point(°C)</b>	N/A
<b>Vapour pressure (kPa)</b>	N/A

Vapour density	N/A
Heat of combustion(kJ/mol)	N/A
Stagnation temperature(°C)	N/A
Critical pressure (MPa)	N/A
Octanol/water partition coefficient	N/A
Flash point(°C)	N/A
Upper limit of explosion%(V/V)	N/A
Lower limit of explosion%(V/V)	N/A
Autoignition temperature(°C)	N/A
Solubility	/

## SECTION 10 STABILITY AND REACTIVITY

**Stability:** Stable.

**Forbidden compound:** Strong oxidizing agent

**Avoid contact conditions:** Open flame, high heat.

**Polymerization hazard:** Cannot occur.

**Decomposition products:** None.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Information on the likely routes of exposure:** Ingestion, skin, eyes.

**Symptoms related to the physical, chemical and toxicological characteristics:** /

**Chronic health effects:** /

**Numerical measures of toxicity (such as acute toxicity estimates):**

Acute Oral Toxicity (Rat) : LD<sub>50</sub> >750 mg/kg

Acute Dermal Toxicity (Rat) : LD<sub>50</sub>>2000 mg/kg

Acute Eyes Irritation (Rabbit) : Moderate-irritant

Acute Dermal Irritation (Rabbit) : Non-irritant

Skin Sensitization(Guinea Pig) : Weak-sensitization

## SECTION 12 ECOLOGICAL INFORMATION

### Toxicity:

Toxicity to Fish : Acute toxicity for Zebra fish LC<sub>50</sub> (96h) > 100 mg a.i./L;

Toxicity to Bird: Acute oral toxicity for Quail LD<sub>50</sub> (7d) =67.2 mg a.i./kg·bw;

Toxicity to Bee : Acute oral toxicity LC<sub>50</sub> (48h) =20.5 µg a.i. /bee;

Acute dermal toxicity LD<sub>50</sub> (48h) = 4.96 µg a.i./bee;

Toxicity to Daphnia Magna: LC<sub>50</sub> (48h) = 21.7 mg a.i./L;

Toxicity to Green alga: E<sub>y</sub>C<sub>50</sub> (72h) = 175 mg a.i./L, E<sub>r</sub>C<sub>50</sub> (72h) = 385 mg a.i./L;

Toxicity to Earthworm: LC<sub>50</sub> (14d) =1.77 mg a.i. /kg dry soil;

Toxicity to Trichogramma: LR<sub>50</sub>(24h) =3.99 µg a.i./cm<sup>2</sup>;

Toxicity to Silkworm: LC<sub>50</sub>(96 h) = 2.45 mg a.i. /L;

Toxicity to Coccinellidae: LR<sub>50</sub>(15d) =6.30×10<sup>-2</sup> µg a.i./cm<sup>2</sup>

**Persistence and degradability:** /

**Bioaccumulative potential:** /

**Mobility in soil:** /

**Other adverse effects:** /

### SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Recycle wherever possible or consult manufacturer for recycling options. Consult Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

### SECTION 14 TRANSPORT INFORMATION

**UN number:** /

**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Transport hazard class(es):** 6.1

**Packaging group:** III.

**Environmental hazards:** Marine pollutant.

**Transportation precautions:** During railway transportation, calcium plastic corrugated boxes can be used for outer packaging. However, it must pass the packaging test and be approved by the Railway Bureau. Before transportation, check whether the packaging container is complete and sealed, and ensure that the container does not leak, collapse, fall, or damage during transportation. It is strictly prohibited to transport with acids, oxidants, food and food additives. Transportation vehicles should be equipped with the corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment. During transportation, it should be protected from exposure, rain and high temperature. Road transportation should be in accordance with the prescribed routes, do not stop in residential areas and densely populated areas.

### SECTION 15 REGULATORY INFORMATION

**Regulations:**

Regulations on the safety Management of Chemical Dangerous Goods (adopted at the 52nd Executive Meeting of The State Council on January 9, 2002), Regulations on the Implementation of the Safety Management of Chemical Dangerous Goods (Huarao Fa [1992] No. 677), Regulations on the safe use of chemicals in the workplace ([1996] No. 423) and other regulations, Corresponding regulations have been made for the safe use, production, storage, transportation, handling and unloading of chemical dangerous goods. The classification and labeling of commonly used hazardous chemicals (GB 13690-92) classifies this substance as Class 6.1 toxic goods.

**Regulation**

This safety

GB13690-2

GB12268-2

regulations:

Administrat

### SECTION 16 OTHER INFORMATION

**References**

1. Zhou Guotai, Chemical Dangerous Products Safety Technology Book, Chemical Industry Press, 1997.
2. The Toxic Chemicals Management Office of the State Environmental Protection Administration and Beijing Research Institute of Chemical Industry, Environmental Data Manual of Chemical Toxicity Regulations, China Environmental Science Press, 1992.

	3.Canadian Centre for Occupational Health and Safety, CHEMINFOD atabase. 19984. Canadian Centre for Occupational Health and Safety, RTECS Database
<b>Form Date</b>	23-April-2023

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information (such as boiling point does not exist for the solid) in the table with "/" logo.