



SHANGHAI MINGDOU AGROCHEMICAL CO., LTD

Add: Rm 1210, Zhenyuan Building, No. 2052 North Zhongshan Rd, Shanghai, China

Tel: 0086 21 52912919, 52045380 Fax: 0086 21 52912097 Web: www.agromdc.com

MATERIAL SAFETY DATA SHEET OF

ACETAMIPRID 95% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: SHANGHAI MINGDOU AGROCHEMICAL CO., LTD

Address: Rm. 1210, Zhenyuan Building, No. 2052 North Zhongshan Rd, Shanghai, China

FAX: +86 21 52912097, 61638378

TEL: +86 21 52912919, 52045380, 52045370

Product name: Acetamiprid 95% TC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Technical material

Active Ingredients: Acetamiprid

Chemical Abstracts name: (E)-N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-methylethanimidamide

IUPAC name: (E)-N¹-[(6-chloro-3-pyridyl)methyl]-N²-cyano-N¹-methylacetamidine

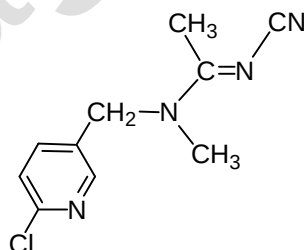
Chemical Family: neonicotinoid

CAS NO. 135410-20-7

Molecular Formula: C₁₀H₁₁ClN₄

Molecular Weight: 222.7

Structural Formula:



Composition:

INGREDIENT	CAS NO	PROPORTION (W/W)
Acetamiprid	135410-20-7	95% Min
Inert ingredients	Not available	5% Max

Other ingredients determined not to be hazardous

3. HAZARDS IDENTIFICATION

Emergency overview: Harmful! Toxic by inhalation and if swallowed. Avoid contact with skin and eyes.

Toxic to bees.



Routes of entry: Inhalation, ingestion, skin and eye contact.

Health hazards:

Inhalation: Toxic if inhaled. Avoid breathing dust or spray mist.

Eye Contact: Avoid contact with eyes.

Skin Contact: Harmful if absorbed through skin. Avoid contact with skin or clothing.

Ingestion: Toxic if ingested.

4. FIRST AID MEASURES

General: Have the product container, label or Material Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

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 treatment advice.

Eye contact: Hold eye 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 eye. Call a poison control center or doctor for treatment advice.

Ingestion: Immediately call a poison control center or doctor for treatment advice. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Have a person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

Inhalation: Move person 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.

Note to physician: No specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5. FIRE FIGHTING MEASURES

Flash point: Not applicable.

Flammable limits:

LFL: Not determined.

UFL: Not determined.

Autoignition temperature: Not determined.

Extinguishing media: Dry chemical, alcohol foam, water spray, carbon dioxide (CO₂).

Fire-fighting instructions: Keep unnecessary people away, isolate hazard area and deny entry. Stay



upwind if possible. Keep out of low areas. Persons 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.

Protective equipment for firefighters: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENT RELEASE MEASURES

Personal precautions: Personnel handling this material should be thoroughly trained to handle spills and releases. Wear appropriate gear for the situation. See Personal Protection information in Section 8.

Environmental precautions: Do not flush to drain. If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterway.

Method for cleaning up: Stop leak if it can be done without risk. Sweep up and place in an appropriate closed container (see Section 7: Handling and Storage). No sparking tools should be used. Avoid creation of dusty conditions. Clean up residual material by washing area with water and detergent. Collect washings for disposal. Decontaminate tools and equipment following cleanup.

7. HANDLING AND STORAGE

Handling: Read the label before use. Keep out of reach of children and animals. Personnel handling this product should be thoroughly trained as to its hazards. Use non-sparking tools and grounded/bonded equipment and containers when transferring. Do not ingest. Do not breathe dust or mists. Avoid getting material on clothing. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

Storage: Do not store in or around the home. Store unused product in a cool, ventilated, dry, locked area. Never transfer this product to another container for storage. Do not allow prolonged storage in areas where temperatures frequently exceed 115°F (46°C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: No exposure limits have been established for this material.

Engineering controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Personal protective equipment (PPE):

Eye/Face Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate equipment should be selected for the particular use



intended for this material. Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

Body Protection: Applicators and other handlers must wear long-sleeved shirts, long pants, chemical resistant, waterproof gloves, and shoes plus socks during mixing, loading, applying and clean-up and repair activities. Where overhead exposure is possible, chemical resistant headgear should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white powder.

Odor: No odor determined.

Melting point: Approx 98°C.

Boiling point: Decomposes before boiling.

pH: 4.0~7.0

Density: No data available.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions to avoid: Avoid heat, sunlight and moisture.

Incompatible materials: Strong bases, strong acids and strong oxidizing agents.

Hazardous reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

The following information is for the active ingredient, acetamiprid.

Acute toxicity:

Oral: LD₅₀ for male rats 217, female rats 146, male mice 198, female mice 184 mg/kg.

Dermal: LD₅₀ for male and female rats >2000 mg/kg.

Inhalation: LC₅₀ for male and female rats >0.29 mg/l.

Irritant properties:

Skin: Slight irritating to skin (rabbits)

Eye: Slight irritating to eyes (rabbits)

Allergenic and sensitizing effects: Not considered to be a skin sensitizer (Guinea pig).

Chronic toxicity: In long term animal feeding studies there was no evidence of carcinogenicity. Not considered a carcinogen or mutagen.

12. ECOLOGICAL INFORMATION

The following information is for the active ingredient, acetamiprid.



Ecotoxicity:

Birds	Acute oral LD ₅₀ : for bobwhite quail 180 mg/kg. Dietary LC ₅₀ (5 days): for bobwhite quail >5000 ppm.
Fish	LC ₅₀ (96 h): for carp >100 mg/l.
Daphnia	EC ₅₀ (24 h): >200 mg/l.
Algae	EC ₅₀ : >98.3 mg/l.
Bees	LD ₅₀ (contact): 8.08 µg/bee.
Earthworm:	LC ₅₀ (14 days): 9 mg/kg soil.

Persistence and degradability: Acetamiprid degrades rapidly by aerobic soil metabolism.

Bioaccumulative potential: Acetamiprid will not bioaccumulate in fish and in sediment.

Mobility in soil: No major issues for soil mobility since low use rate and rapid degradation reduce the amount for offsite movement.

13. DISPOSAL CONSIDERATION

Do not contaminate water, food, or feed by storage or disposal. Contamination with this product will render water, food or feed unfit for human or animal consumption.

Triple rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty rinsed container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

14. TRANSPORT INFORMATION

UN Number: 2588

UN Proper shipping name: Pesticides, solid, toxic, n.o.s.

Transport hazard class: 6.1

Packing group: III

15. REGULATORY INFORMATION

Hazard symbols:

T Toxic

Risk phrases:

R23/25 Toxic by inhalation and if swallowed.

R57 Toxic to bees.

Safety phrases:

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where



SHANGHAI MINGDOU AGROCHEMICAL CO., LTD

Add: Rm 1210, Zhenyuan Building, No. 2052 North Zhongshan Rd, Shanghai, China

Tel: 0086 21 52912919, 52045380 Fax: 0086 21 52912097 Web: www.agromdc.com

possible)

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

END OF MSDS