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MATERIAL SAFETY DATA SHEET

MSDS No: MSDS/ACE/FG-001

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : **Acetamiprid Technical**
IUPAC Name : (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamidine

Manufacturer / Supplier : **Bharat Rasayan Limited**
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2. COPOSITION/INFORMATION ON INGREDIENTS

Formulation types : Technical material

Active Ingredients : Acetamiprid

Chemical Abstration Name : (E)-N1-[(6-chloro-3-pyridinry)methyl]-N'-cyano-N-methylethanimidamide

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

Chemical Family : Neonicotinoid

CAS NO : 135410-20-7

Molecular Formula : C₁₀H₁₁ClN₄

Molecular Weight : 222.7

Composition

INGRDIENT	CAS NO	PROPORTION(W/W)
Acetamidrid	135410-20-7	99%
INERT INGREDIENTS	Not available	1%

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 inhalation. Avoid breathing dust or spray mist.

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.Descripbe and symptoms and follow the advice given.

Skin contact: take off contaminated clothing. Rinse skin immediately with plentl of water for 15-20minuts. Call a parson control centre or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Removed contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Ingestion: Immediately call a poison control centre or doctor for treatment advice. DO NOT induce vomiting unless directed to do so by a physician control centre. 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 control centre 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 limites:

LFL: Not determined

UFL: Not determined

Autoignition temperature: Not determined

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

Fire- fighting instruction: keep unnecessary people away, isolate hazards 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 precaution: Do not flush to drain. If spilled on the ground, the affected area should be scraped 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 washing for disposal. Decontaminate tools and following cleanup.

7. HANDLING AND STORAGE

Handling: read the label before use. Keep out 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 container when transferring. 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 cool, ventilated, dry, locked area. never transfer this product to another container for storage. Do not allow prolonged storage in areas when temperatures frequently exceed 115°F (46°C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

Personal protective equipment (PPE):

Eye/Face Protection: Eye /Face protection requirements will vary dependent upon work environment conditions and materials 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: application and other handlers must wear long-sleeved shirts, long pants, chemical resistant, waterproof gloves, and shoes plus socks 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.

Order: No order determined.

Boiling point: Approx 98°C

pH: 4.0-7.0

Density: No data available.

10. STABILITY AND REACTIVITY

Chemical stability: stable under normal conditions.

Condition to avoid: Avoid heat, sunlight and moisture.

Incompatible materials: strong bases, strong acid and strong oxidizing agents.

Hazardous reactions: Hazardous polymerization will not occur.

5. FIRE FIGHTING MEASURES

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 184mg/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).

Clonic 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 ID₅₀: for bobwhite quail 180 mg/kg.

Fish LD₅₀(96h): for carp > 100mg/l.

Daphnia EC₅₀ (24h): >200ml/l.

Algae EC₅₀: >98.3gm/l

Bees EC₅₀ (Contact): 8.08µg/bee.

Earthworm: LC₅₀(14days): 9mg/kg soil.

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

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

13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by storage or disposal. Contamination with 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 manufacturing or the manufacturer or the provincial regulatory agency.

14. TRANSPORT INFORMATION

UN Numer: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 phrase:

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

16. OTHER INFORMATION

The information provided in this MSDS is of general nature not specific for a particular purpose or situation, and believed to be correct and faithful. **Bharat Rasayan Limited** does not make any warranty or guarantee of any kind regarding fitness or completeness of information. Bharat Rasayan Limited disclaims any liability to the result(s) obtained or arising out of any use of the product or reliance on data/information contained in this MSDS.

Prepared by: Bharat Rasayan Limited: EHS Department

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