

Material Safety Data Sheet : Acetamiprid Technical

1. Chemical Product and Company Identification

Product Name : Acetamiprid Technical
Formula : C₁₀H₁₁ClN₄
Molecular Weight : 222.68
Chemical Name : (E)-N'-[(6-chloro-3-pyridyl)methyl]-N₂-cyano-N'-methyl acetamide
Manufacturer : Sumitomo Chemical India Limited
Corporate Office : 13 / 14 Aradhana Industrial Development Corporation, Near Virwani Industrial Estate, Goregaon (East), Mumbai – 400 063
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2. Composition/Information on Ingredients

Component	CAS No.	% W/W content
Acetamiprid	135410-20-7	99.0% Min.

3. Hazard Identification

Emergency Overview

Appearance and odour : Yellow to off white powder, Solid , odourless

Warning Statements : Keep out of reach of children

Potential Health Effects

Likely Routs of Exposure : Skin contact, Inhalation and Ingestion

Eye Contact : Non irritating to eyes.

Skin contact : Non irritating to skin.

Ingestion : Harmful if swallowed.

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Inhalation : Harmful if inhaled.

Environmental Hazards : The product is meant for insecticide formulation.

4. First aid measures and Antidote

Emergency and First Aid Procedure –

- If in Eyes** : Immediately flush with plenty of clean water for 15-20 minutes. Remove contact lenses if present after 5 minutes of washing. Get medical attention.
- If on Skin** : Take off contaminated clothing, rinse skin immediately with soap and water. Get medical attention.
- If Inhaled** : Remove person to fresh air, keep warm and at rest, if required give artificial respiration. Get medical attention.
- If Swallowed** : Seek medical advice immediately and show the container, label or this data sheet, if possible. Do not induce vomiting.
- Note to Physician** : Treat as symptomatically.
- Antidote** : No antidote known.

5. Fire Fighting Measures

- Hazardous product of Combustion** : On combustion or thermal decomposition it may evolve toxic and irritant vapour.
- Extinguishing Media** : Foam, Dry chemical powder, CO₂ type fire extinguisher or Flood with water.
- Unusual Fire and Explosion Hazards** : Emits chlorides, Oxides of nitrogen and Carbon.
- Fire Fighting Equipment** : Evacuate area and fight fire from a safe distance. Approach from upwind to avoid hazardous vapours and decomposition products. Use self-contained breathing apparatus. Used equipments should be thoroughly decontaminated.

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6. Accidental Release Measure

Personal Protection : Observe all protection and safety precautions. Depending on the magnitude of the spill, use of eye protection, gloves and boots when cleaning up spills are recommended. For PPE see Section 8

Steps to be taken in case of a spill : It is recommended to have a predetermined plan / SOP for the handling of spills.

Stop the source of the spill immediately, if safe to do so. Contain the spill to prevent any further contamination of soil or water.

Keep all bystanders away. Wear full-length clothing and appropriate gloves. Shovel and collect the spilled material / contaminated absorbent and place in suitable containers. Thoroughly scrub the floor or other impervious surfaces with a strong industrial detergent and rinse with water.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal through incineration.

7. Handling and Storage

Precautions in Handling : In an industrial environment, such as while filling or packing, it is recommended to avoid physical contact with the product and to have adequate ventilation.

Avoid spillage into the eyes, or contact with bare skin or clothing. Avoid inhaling vapours, mist. Wash hands, feet, face thoroughly after handling. Remove contaminated clothing immediately

Precautions in Storage : The product is stable under normal conditions of warehouse storage. Keep container lids tightly closed. Store in a cool, dry, well-ventilated place away from foodstuffs, animal feed under lock & key.

Specific Use : The product is meant / approved to be used as insecticide formulation.

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8. Exposure Controls/Personal Protection

Exposure Limit Values	: Unknown
Personal Protection	: When used in a closed / automated system, personal protection equipment may not be required. When closed system is not possible in case of maintenance, repair, sampling etc, systems must be made nonhazardous before opening
Respiratory Protection	: The product is likely to pose inhalation exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a vapours or mist, workers should put on respiratory protection equipment with a universal filter.
Protective Gloves	: Wear chemical resistant nitrile gloves.
Eye Protection	: Wear goggles, face shield or safety glasses. It is recommended to have an eye wash fountain available in the work area.
Skin Protection	: Wear appropriate protective clothing to prevent direct skin contact

9. Physical and Chemical Properties

Physical State	: Solid
Appearance	: Yellow to off white powder
Odour	: Odourless
Relative Density (Specific Gravity)	: 1.33
pH value	: 4.00 to 7.00
Viscosity	: Not applicable
Vapour Pressure	: $< 1 \times 10^{-3}$
Vapour Density	: No data available
Melting Point / Freezing Point	: 98-100 °C
Boiling Point	: No data available
Flash Point	: No data available
Auto Ignition Temp	: No data available
Flammable Limits	: Non relevant
Solubility in Water	: 4250 mg/Lit.

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10. Stability and Reactivity

Chemical Stability : Product is stable under standard conditions of storage.

Materials to Avoid : Strong oxidising and alkaline agents.

Hazardous Decomposition Product : Refer to section no. 5

Hazardous Polymerisation : Not known

11. Toxicological Information

Health Hazards : Refer to section no. 3

Acute Toxicity : The product is toxic. It should be treated with the usual care of handling hazardous chemicals.

Route(s) of Entry

Ingestion : LD₅₀, oral, rat: cut off value 500 mg/kg body weight
Skin : LD₅₀, dermal, rat: > 2000 mg/kg body weight
Inhalation : LC₅₀, (4 hr) rat > 0.29 mg/L of air

12. Ecological Information

Toxicity date :

Acute Oral Toxicity in Birds : Quail LD₅₀ 150 mg/kg

Acute Toxicity in Fish : Carp LC₅₀ (96 h) >100 mg/kg

Acute Toxicity Honey bees : Contact LC₅₀ Contact - 8.08 µg/bee

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13. Disposal Considerations

Waste Treatment Methods : Keep out of drains, sewers, ditches and waterways.
Left-over material that should not be used or chemically reprocessed and should be disposed of in a landfill approved for pesticide disposal. Other possible methods of disposal are controlled incineration with flue gas scrubbing

Containers : Emptied containers may retain vapour and product residue. Observe all labeled safeguards until container is cleaned or destroyed.

Triple or pressure rinse empty containers. Pour rinse water into formulation tank. Store for collection by approved waste disposal service.

Dispose of as non hazardous industrial waste. Do not re-use containers.

Disposal of waste and packaging materials must always be in accordance with all applicable local laws/regulations.

14. Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Hazardous under the applicable ICAO/IATA, IMO, TDG.

IMDG Classification

Proper Shipping Name : PESTICIDE, SOLID, TOXIC, N.O.S.

Hazard class / I D No. : 6.1

Label : 6

Subsidiary hazard(s) : -

UN No. : 2588

Packing group : III

Marine pollutant : Yes

Flammable : No

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15. Regulatory Information

Contains	: Acetamiprid Technical
Regulatory Status	: The product is meant for an insecticide formulations which may only be used for the applications that are registered for, in accordance with an officially approved label

16. Other Information

This MSDS is intended for storage and transport safety. It 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 how the product will be handled and used in the workplace including in conjunction with other products.

This material should be handled by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

This MSDS is not intended for product users who should refer to the product label for safety precautions applicable to them.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product may vary and situations unforeseen by Sumitomo Chemical India Limited may exist. The user has to check the validity of the information under local circumstances.

Most of the data provided is referred from public domain.