

1. Chemical Product and Company Identification

Product Name : Imidacloprid Technical

Formula : $C_9H_{10}CIN_5O_2$

Molecuar Weight : 255.7

Chemical Name : 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine

Manufacturer : Sumitomo Chemical India Limited

Corporate Office: 13 / 14 Aradhana Industrial Development Corporation, Near Virwani Industrial Estate, Goregaon (East),

Mumbai - 400 063

Emergency Contact Details : +91 22 4252 2200

: +91 22 4252 2209 : +91 278 2212320

Email : msds@sumichem.co.in
URL : http://www.sumichem.co.in

2. Composition/Information on Ingredients

Component CAS No. % W/W content

Imidacloprid 138261-41-3 95 minimum

3. Hazard Identification

Emergency Overview

Appearance and odour :White to off white crystal, with weak characteristic odour

Warning Statements : Keep out of reach of children

Potential Health Effects

Likely Routs of Exposure: Skin contact, Inhalation and Ingestion

Eye Contact: Unlikely to cause eye irritation

Skin contact: Irritation on prolonged

skin contact has not been reported.

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Ingestion: Harmful if swallowed

Inhalation: Unlikely to cause adverse effect by this route

Environmental Hazards: The product is an active ingredient in insecticide formulations

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 : Wash with plenty of clean water and soap. Get medical attention if

irritation develops

If Inhaled : If experiencing any distress/discomfort, immediately remove the

affected person to fresh air and obtain medical advice if discomfort

does not disappear

If Swallowed : Immediately offer drinking water to the person, if able to swallow.

Get medical attention

Note to Physician : Treat symptomatically. May be treated as usual against effects of

acids or acid fumes

Antidote : No specific antidote known

5. Fire Fighting Measures

Hazardous product of

Combustion

Not known.

Extinguishing Media

Foam, Dry chemical powder, CO₂ type fire extinguisher or Flood with

water.

Unusual Fire and Explosion Hazards

The product does not pose any unusual fire hazard.

Fire Fighting Equipment : Evacuate the area and fight fire from a safe distance. Approach from

upwind to avoid hazardous vapours and decomposition products, if any. Use self-contained breathing apparatus. Used equipments

should be thoroughly decontaminated.

6. Accidental Release Measure

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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 PVC 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 making formulation, 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 spray 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.

8. Exposure Controls/Personal Protection

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Exposure Limit

Not known.

Values

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 not 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 dust or mist, workers should put on respiratory protection equipment with a universal filter

Protective Gloves: Wear appropriate 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: White to off white crystal,

Odour : with weak characteristic odour

Relative Density (Specific

Gravity)

1.50±0.03 g/mL.

pH value : 6.81-6.84

Viscosity : Not applicable.

Vapour Pressure : 9 x 10⁻⁷mPa at 25⁰ C

Vapour Density : Not known.

Melting Point / Freezing

Point

: $144.1 \pm 0.1^{\circ}$ C

Boiling Point : Not applicable.

Flash Point : Not applicable.

Auto Ignition Temp : Not applicable.

Flammable Limits : Non-flammable.

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Solubility in Water : 550 ± 16 ppm at 20° C

10. Stability and Reactivity

Chemical Stability: Product is stable under ambient conditions of storage

Materials to Avoid : Data not available.

Hazardous

Decomposition Product

: Refer to section no. 5

Hazardous Polymerisation

Not reported

11. Toxicological Information

Health Hazards : Refer to section no. 3

Acute Toxicity : The product is likely to be toxic. It should be treated with the usual

care of handling hazardous chemicals. :

Route(s) of Entry

Ingestion: LD₅₀, oral, rat: 1000 mg/kg body weight of female rat

Skin: LD₅₀, dermal, rat: > 2000 mg/kg body weight

Inhalation : 4 hour LC_{50} , rat: 5.04 mg/L air.

12. Ecological Information

Acute Oral Toxicity in

Birds

: In bobwhite quail 152mg/kg body weight.

Acute Toxicity in Fish

(96 hrs LC₅₀)

Rainbow trout: 211mg/L

Acute Toxicity Honey

bees

Harmful to honey bees by direct contact.

13. Disposal Considerations

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Waste Treatment Methods

Keep out of Drains, Sewers, Ditches and Water ways. 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 DOT, ICAO/IATA, IMO, TDG

IMDG Classification

Proper Shipping Name : Pesticide, Toxic, Solid, n.o.s. (Imidacloprid)

Hazard class / I D No. : 6
Subsidiary hazard(s) : -

Label : Class-6.1

UN No. : 2588
Packing Group : III

Marine Pollutant : Yes

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15. Regulatory Information

Contains : Imidacloprid Technical (CAS No. 138261-41-3)

Regulatory Status : The product is meant for the production of insecticide

formulations which may only be used for the applications they 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.

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