

Version: 1.0 Issue date: Oct .1, 2024

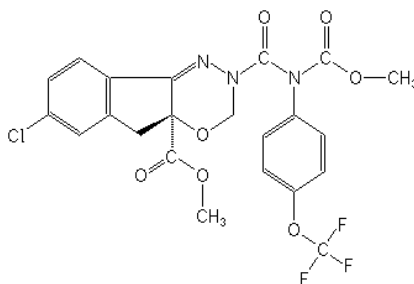
Material Safety Data Sheet

Of Indoxacarb 95% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.**Street address:** No.1611 North Sichuan Road, Hongkou District, Shanghai, P.R. China.**FAX:** +86 21 63065878**TEL:** +86 21 63065878**Product name:** Indoxacarb 95% TC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product name: Indoxacarb 95% TC**IUPAC:** methyl(S)-N-[7-chloro-2,3,4a,5-tetrahydro-4a-(methoxycarbonyl)indeno[1,2-e][1,3,4]oxadiazin-2-ylcarbonyl]-4-(trifluoromethoxy)carbanilate**Molecular Formula:** C₂₂H₁₇ClF₃N₃O₇**Structural formula:**

Ingredient	CAS No.	Concentration
Indoxacarb	173584-44-6	95% min
Other non-hazard ingredients	---	Balance to 100%

3. HAZARD IDENTIFICATION

Emergency Overview: Caution! Causes eye irritation. Harmful if absorbed through skin.

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Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

4. FIRST AID MEASURES

General: when possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

If in eyes: 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 physician or poison control center immediately.

If on skin or clothing: 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.

If ingested: Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

5. FIRE FIGHTING MEASURES

Unusual Fire, Explosion and Reactivity Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire: Use dry chemical, foam as extinguishing media. Evacuate personnel to safe areas. Avoid contact with spilled product or contaminated surfaces. Contain the spread of the fire-fighting media. Keep out of smoke. Do not allow run-off from fire fighting to enter drains or water courses. After the fire is extinguished, do not turn on any ignition source until the area is determined to be free from explosion or fire hazard. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

In Case of Spill or Leak: Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect and transfer the product into a properly labeled and tightly closed container. Avoid dust formation. Decontaminate tools and equipment following cleanup. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.

Additional Advice: Do not allow to enter soil, waterways or waste water canal. Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling Procedures: Handle and open container in a manner as to prevent spillage. Avoid contact with skin, eyes and clothing. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Keep away from heat and sources of ignition.

Storing Procedures : Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container. Store in a place accessible by authorized persons only.

Work/hygienic Procedures: Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

General Protection: Keep and wash PPE separately from other laundry. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables use detergent and warm/tepid water.

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Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use safety glasses with side-shields. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant nitrile rubber gloves, wear long-sleeved shirt and long pants and shoes plus socks.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow to off-white powder

pH: 5.0-7.0

S.g./density: NA

V.p.: NA

Melting Point: 88.1 ° C

Solubility: In water 0.20 mg/l (25 ° C)

Flammability: NA

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Materials to Avoid: When heated to decomposition it emits toxic vapors of Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas and Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ for rats: Male rat acute oral LD₅₀ 843, female rats 179 mg/kg

Acute dermal LD₅₀ for rats: >5000mg/kg (both female & male rats)

Skin and Eye irritation: No eye or skin irritation (rabbits).

Skin sensitization: Dermal sensitiser (guinea pigs).

12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION



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Birds: Acute Oral LD₅₀ for Coturnix coturnix japonicas is greater than 1.03×10^3 mg/kg.

Fish: LC₅₀ (96h) for Brachydanio rerio 8.36mg/L

Bees: LC₅₀ (48h) is 37.66 mg/L; (contact) LD₅₀ (48h) is 0.14µg/bee

Worms: LC₅₀ (14d) 1.49×10^2 mg/kg dry soil

13. DISPOSAL CONSIDERATIONS

General Disposal Guidance:

Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label. It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

Container Disposal:

Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet.

14. TRANSPORT INFORMATION

UN No.: 2811

Class and label: 6.1

Packaging group: III

Proper shipping name: Toxic solids, organic, n.o.s. (Contain Indoxacarb)

15. REGULATORY INFORMATION

Follow all local and international laws and regulations.

16. OTHER INFORMATION

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The above information is believed to be correct but does not purport to be all inclusive and shall be



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used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We shall not be held liable for any damage resulting from handling or from contact with the above product.