



MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

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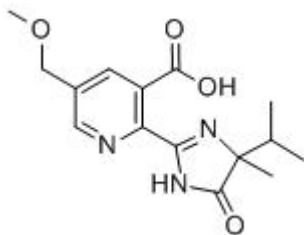
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1. Chemical Product Identification

Product Name: Imazamox 98% TC

Molecular Formula: C₁₅H₁₉N₃O₄

Structural Formula:



Molecular Weight: 305.34 g/mol

Chemical Name: 2-[(RS)-4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl]-5-methoxymethyl nicotinic acid

2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Imazamox	114311-32-9	98.0
others	---	2.0

3. Hazards Identification

Potential health effects

Acute toxicity: Virtually nontoxic after a single skin contact.

Irritation / corrosion: May cause moderate but temporary irritation to the eyes. May cause slight irritation to the skin.



Sensitization: There is no evidence of a skin-sensitizing potential.

Medical conditions aggravated by overexposure: Individuals with pre-existing diseases of the respiratory system, central nervous system or liver may have increased susceptibility to excessive exposures.

Potential environmental effects

Aquatic toxicity: There is a high probability that the product is not acutely harmful to fish

There is a high probability that the product is not acutely harmful to aquatic invertebrates.

Very toxic (acute effect) to aquatic plants.

4. First Aid Measures

General advice: First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled: Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

If on skin: Rinse skin immediately with plenty of water for 15 - 20 minutes.

If in eyes: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having Convulsions.

5. Fire-Fighting Measures

Suitable extinguishing media: foam, dry powder, carbon dioxide, water spray.

Hazards during fire-fighting: carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons, If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.



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Further information: Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. Accidental Release Measures

Personal cautions: Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Cleaning methods

EX: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Environmental cautions

EX: Prevent the contamination of the floor and of beds of water.

7. Handling And Storage

Handling

General advice: No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion: Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge.

Storage

General advice: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

Storage incompatibility: General advice: Segregate from foods and animal feeds.

Temperature tolerance

Protect from temperatures above: 40°C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls / Personal Protection

Respiratory protection: Wear respiratory protection if ventilation is inadequate. Wear a



NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection: Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazard.

9. Physical And Chemical Properties

Form: Crystalloid

Odour: Odourless

Colour: Grey to off-white

pH value: 2.0-5.0

Solubility in water: Dispersible

10. Stability And Reactivity

Conditions to avoid: Avoid all sources of ignition: Heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge.

Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. The concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

Substances to avoid: strong acids, strong bases, strong oxidizing agents

Hazardous reactions: The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products: Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

Possible thermal decomposition products: carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons.

Stable at ambient temperature. If product is heated above decomposition temperature toxic



vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

11. Toxicological Information

Acute oral LD50 for rat: >5000 a.i.mg/kg.

Acute dermal LD50 for rat: >4000 a.i.mg/kg.

Inhalation LC50 (4 h) for rat: >6.3 a.i.mg/L.

Skin irritation: Slight skin irritant (rabbits).

Eye irritation: Moderate eye irritant (rabbits).

Skin sensitization: Not a skin sensitiser (guinea pigs).

12. Ecological And Ecotoxicological Information

Effect on birds: moderate toxicity to birds, acute oral LD50 for Bobwhite quail is >1846 a.i.mg/kg.

Effect on fish: low toxicity to fish, acute 96 hour LC50 for Rainbow trout is >122 a.i.mg/L.

Effect on aquatic invertebrates: low toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is >100 a.i.mg/L.

Effect on algae: low toxicity to algae, acute 72 hour EC50 for Pseudokirchneriella subcapitata is >29.1 a.i.mg/L.

Effect on honeybees: moderate toxicity to honeybees, contact acute 48 hour LD50 is >58 a.i.µg/bee, oral acute 48 hour LD50 is >40 a.i.µg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC50 for Eisenia foetida is >901 a.i.mg/kg.

13. Disposal Considerations

Waste disposal of substance: See product label for disposal and recycling instructions.

Container disposal: Rinse the container or liner as needed for disposal. Add rinsate to spray tank. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Consult the product label for additional details.

14. Transport Information

Not applicable



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15. Regulatory Information

Not applicable

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.