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MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO.,LTD

ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT,

WENZHOU ZHEJIANG P.R. CHINA

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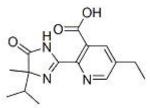
1. Chemical Product Identification

Product Name: Imazethapyr 70% WP

Molecular Formula: C₁₅H₁₉N₃O₃

Molecular Weight: 289.33

Structural Formula:



Chemical Name: 5-Ethyl-2-(4-isopropyl-4-methyl-5-oxo-1H-imidazolin-2-yl)nicotinic acid

Form: Powder Color: White

Odor: Faint rubbery odour

CAS No.: 81385-77-5

2. Composition / Information on Ingredients

1 0		
Composition	CAS No.	Content %
Imazethapyr	81385-77-5	70.0
Balance		30.0

3. Hazards Identification

May irritate eyes and skin.



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4. First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Swallowed: If swallowed, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Care should be taken to prevent vomit from entering the lungs. Keep under medical supervision.

Eye: Rinse immediately with clean water, including under eyelids, for at least 15 minutes and obtain medical advice.

Skin: Remove contaminated clothing. Wash affected areas with plenty of soap and water.

Inhaled: If inhaled, remove to fresh air and obtain medical advice.

5. Fire-Fighting Measures

Fire Fighting Procedures: Firefighters should wear full protective gear, including self-contained breathing apparatus. If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.

Extinguishing Media: Carbon dioxide, water spray, dry agent, foam.

Stability and Reactivity: Stable under normal conditions of use. No dangerous reaction known under normal conditions of use. Avoid extreme heat and fire. Toxic thermal decomposition products may include oxides of carbon, sulphur and nitrogen and compounds of chlorine and fluorine.

6. Accidental Release Measures

Dealing with spills and disposal may result in the potential for increased personal exposure. During such operations it is recommended that the following protective clothing is worn: Cotton overalls buttoned to the neck and wrist Waterproof gloves Contain spill, sweep up or shovel and place in properly labelled sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority.

7. Handling and Storage

Handling: Keep out of reach of children. Avoid contact with eyes, skin and clothing. Wear long sleeved overalls and gloves while handling. After handling and before eating, drinking



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or smoking, wash hands, arms and face thoroughly with soap and water.

Storage: Store in the closed original container in a cool, well ventilated, locked place out of the reach of children. Do not store in direct sunlight.

8. Exposure Controls/Personal Protection

Exposure standards: No occupational exposure standards have been established for the product or its ingredients.

Engineering controls: Control process conditions to avoid contact.

Personal Protective Equipment:

Wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

Respiratory: Not required.

9. Physical and Chemical Properties

Appearance: White powder

Odor: Faint rubbery odour

pH: No data available.

Boiling point: No data available.

Flashpoint (°C): Not flammable.

Flammability: Not flammable.

Solubility in water: Disperses in water. Not soluble.

10. Stability and Reactivity

Chemical stability: Stable under normal conditions of use. No dangerous reaction known

under normal conditions.

Hazardous polymerisation: None

Conditions to avoid: Extreme heat and fire

Incompatible materials: None known

Hazardous decomposition products: Thermal decomposition may produce toxic by-products of carbon and nitrogen.

11. Toxicological Information



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

Acute dermal LD50(rat): >2000 a.i.mg/kg

Acute InhalationLC50(rat, 4h): 3.27 a.i.mg/l air

Skin irritation: Sightly irritating to rabbit skin

Eye irritation: Sightly irritating to rabbit eyes

Skin Sensitization: non-sensitive (Guinea Pig)

12. Ecological And Ecotoxicological Information

Effect on birds: Acute oral LD50 for Mallard is 2150 a.i.mg/kg.

Effect on fish: Acute LC50 (96 h) for Rainbow trout is 340 a.i.mg/l.

Effects on aquatic invertebrates: Acute EC50 (48 h) for Daphnia magna is 1000 a.i.mg/l.

Effects on algae: Acute 72 hour EC50 for Raphidocelis subcapitata is 71 a.i.mg/l.

Effects on bees: contact acute 48 hour LD50 is >100 a.i.µg/bee, oral acute 48 hour LD50

is >24.6 a.i.µg/bee.

Effects on earthworms: Acute 14 day LC50 is 10000 a.i.mg/kg.

13. Disposal Considerations

Triple or (preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on-site. If recycling replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. Transport information

Not Applicable

15. Regulatory Information

Not Applicable

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are



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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.