



NINGBO FINECHEM IND. CO., LTD.

MATERIAL SAFETY DATA SHEET

SECTION 1-PRODUCT & COMPANY IDENTIFICATION

Product Name: Pyraclostrobin Technical

Chemical Name: methyl *N*-{2-[1-(4-chlorophenyl)pyrazol-3-yloxymethyl]phenyl}(*N*-methoxy)
carbamate (IUPAC)

Chemical Family: Methoxycarbamate

Chemical Formula: C₁₉H₁₈ClN₃O₄

Molecular Weight: 387.8

CAS No.: 175013-18-0

Details of the supplier of the safety data sheet

Company : Ningbo Huili Import & Export Co., Ltd.
ROOM 1403, No.757, RILI MIDDLE ROAD, YINZHOU,
NINGBO, CHINA
Telephone :0086574-87641888
Fax :0086574-87641880

SECTION 2-COMPOSITION/INFORMATION ON INGREDIENTS

Component	Content
Pyarclostrobin	98%
Other ingredients	Up to 100%

SECTION 3-HAZARD IDENTIFICATION

Hazard symbol: T; N

Indication of danger: Toxic; dangerous to the (aquatic) environment

Risk phrases: R23 Toxic by inhalation

R38 Irritating to skin

R50/53 Very toxic to aquatic organisms

May cause long-term adverse effects in the aquatic environment



Precautionary statement(s):

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P304+P340+P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor
P391	Collect spillage
P403+P233	Store in a well-ventilated place. Keep container tightly closed
P501	Dispose of contents/container to an approved waste disposal plant

SECTION 4-FIRST AID MEASURES AND PRECAUTIONS

General Advice

If medical attention is required, show this safety data sheet to the doctor.

If Inhaled:

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact:

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

In Case of Eye contact:

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

SECTION 5-FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture



Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas

Advice for firefighter

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6-ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7-HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat. 3/toxic hazardous materials or hazardous materials causing chronic effects

SECTION 8-EXPOSURE CONTROL/PERSONAL PROTECTION

APPROPRIATE ENGINEERING CONTROLS

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTIVE EQUIPMENT:



All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Respiratory protection:

Recommended respirators are BIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirators is the only means of protection, a full-face supplied air respirator must be used.

Eye/face protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standard such as NIOSH (US) or EN 166 (EU)

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection:

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off white solid powder

Odour: Moderate aromatic odour

Melting Point: 63.7-65.2°C



Boiling point: Decomposition at 200°C

Flash point: 132°C

Density: 1.285 g/cm³ at 20°C

Vapor Pressure: 2.6×10^{-8} Pa at 20°C

Solubility in water: Soluble. 1.9 mg/l without dissociation

Solubility in organic solvents: In n-Hexane, 3.7; Methanol, 100.8; n-Octanol 24.2; Propanol, 30; Acetone/acetonitrile, Dichloromethane, Ethyl Acetate and toluene >500; (all in g/l).

pH: Not available

Oxidizing properties: None

Explosive properties: None

SECTION 10-STABILITY AND REACTIVITY

Stability:

Stable under normal recommended storage conditions.

Possibility of Hazardous Reactions:

No data available.

Incompatibility:

No data available

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions.-Carbon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas

SECTION 11-TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Acute oral LD₅₀: >5000 mg/kg rats.

Acute dermal LD₅₀: >2000 mg/kg rats.



Inhalation: Technical: LC₅₀ (4 hours): 0.58 mg/l air.

Acute skin irritation: irritating to skin

Acute eye irritation: non- irritating to eyes

OTHER TOXICITY

No mutagenic potential (5 tests);

No teratogenic potential (rats, rabbits);

No carcinogenic potential (rats, mice);

No adverse effects on reproduction (rats).

SECTION 12-ECOLOGICAL INFORMATION

ECOTOXICOLOGY:

Birds: Acute oral for Bobwhite quail, LD₅₀ >2000 mg/kg bw;

Dietary for Mallard duck, LC₅₀ >2000 mg/kg bw

Fish: Rainbow trout: LC₅₀ (96hr) 0.006 mg/l

Algae: EC₅₀ (72hr) 0.69 mg/l

Daphnia: EC₅₀ (48hs) 0.0152 mg/l

Bees: Acute oral LD₅₀ =76.9 µg/bee; Acute contact LD₅₀ >100 µg/bee

Earthworms: LC₅₀ (14 days) 565.9 mg/kg soil.

SECTION 13-DISPOSAL CONSIDERATION

Pesticide disposal:

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

Container disposal:

Dispose of as unused product.

Other Considerations:



Product is not to be disposed of in sanitary sewers, storm sewers, or landfills

SECTION 14-TRANSPORT INFORMATION

UN NUMBER: 2811

Road Transport ADR/IRD:

Class: 6.1

Packing group: III

Shipping name: Toxic Solid, Organic, N.O.S. (Pyraclostrobin)

Maritime Transport IMDG/IMO:

Class: 6.1

Packing group: III

Shipping name: Toxic Solid, Organic, N.O.S. (Pyraclostrobin)

Air Transport IATA

Class: 6.1

Packing group: III

Shipping name: Toxic Solid, Organic, N.O.S. (Pyraclostrobin)

SECTION 15-REGULATORY INFORMATION

Comply with local regulations.

SECTION 16-OTHER INFORMATION

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.



NINGBO FINECHEM IND. CO., LTD.

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