

# 河北捷润科技有限公司

## Hebei JRain Technology Co., Ltd.

Date: Apr.12th, 2024

### Metalaxyl-M Safety data sheet

#### 1. Product and company logo

Chemical name: Metalaxyl-M

CAS number :70630-17-0

Molecular formula :C<sub>15</sub>H<sub>21</sub>NO<sub>4</sub>

Molecular weight :279.3315

Company name: HEBEI JRain TECHNOLOGY CO.,LTD.

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#### 2. Composition information

Component %

Metalaxyl-M... ..  $\geq 91\%$

Other ingredients... ..  $\leq 9\%$

Total ..... 100%

#### 3. Risk identification

Ingestion: Data indicates harmful ingestion.

Eyes: This product may cause eye irritation. However, it does not cause minor and temporary discomfort to the body. Nor will it have any significant lasting effect.

Skin: This product may irritate the skin, causing mild discomfort or itching or slight redness.

Inhalation: Data indicate that this product does not cause significant problems to humans if used as directed.

Chronic. Long-term animal studies showing no reproductive, teratogenic, or mutagenic effects. Feasibility studies on the carcinogenic effect of Mefroxacin are still inconclusive. Long-term exposure to metalaxyl may cause liver damage.

#### 4. First aid measure

If it takes more than 15 minutes to get to the hospital, induce vomiting, preferably with syrup of ipecac. Eyes: If product gets in eyes, rinse with running water. If it starts to redness, take special measures and wash thoroughly. Skin: Wash the skin if the product comes into contact with it. No further action is needed until it is clear that the stimulus is working. If irritation persists, seek medical attention.

Inhalation: Usually no first aid is required. However, if fog or dust is inhaled, move to fresh air and watch until it recovers. If irritation persists for more than about 30 minutes, seek medical attention. First aid facility: Eye wash station Doctor's advice: Treat the case.

#### 5. Fire control measures

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Normally, if there is a fire, there is no danger of an explosion.

Flammability: Not applicable. This product is not flammable.

Extinguishing medium: chemical dry powder, carbon dioxide, mist water or foam.

Special fire and explosion hazards: In confined Spaces, fire decomposition products from coverings can form toxic and corrosive mixtures. Decomposition products: carbon dioxide, carbon monoxide and smog if burned incompletely, nitrogen, and in some cases nitrogen oxides, water. Materials to avoid: Strong oxidants.

### 6. Leakage emergency treatment

In the event of a major spill, prevent overflow into sewers or river channels. Wear full body protective clothing, including masks, face shields and hand guards. Cover all exposed skin. Wash protective clothing before storage or reuse. Stop leaks and spills. It's safe to do so. Sweep, remove or collect recyclable products into labeled containers for recycling or waste reuse. After a spill, wash the area to prevent runoff into the sewer. If there are contaminated crops and waterways, notify the emergency services or the National Ministry of Agriculture.

### 7. Handling and storage

The Australian code does not define dangerous goods when carrying goods by road or rail. This material is classified as a toxic substance (S5) and must be stored, maintained and used in accordance with relevant regulations.

Containers should be kept closed to reduce contamination. Keep away from high temperatures and open flames, and ensure that the product does not come into contact with strong oxidants. Keep away from children, animals, food and food materials. Sealed storage, orderly placed in a safe place, to avoid the contact to disturb the order of their placement.

### 8. Exposure Control/Personal Protection

Exposure standard: Any one time weighted average concentration (TWA) of the main components of this product is 8 hours per day, the Australian Work Safe 5-day week has not been established. There is a pipe or mist 10 mg/m<sup>3</sup> blanket limit that has not been established. The nature of this product makes it unlikely that it will approach this level in normal use.

Engineering standard:

In industrial fields, concentration values below TWA values should be maintained. Using local venting, ventilation, capturing the substance at source, or other methods during the modification process can make the value lower. If you think the airborne concentration of fog, dust, or vapor is too high, it is recommended that you modify the process or environment to reduce the occurrence of problems. Personal Protection:

Respiratory protection: Due to the nature of the product, it is usually safe to protect without a dust mask or respirator. However, if used in industrial areas or restricted environments, masks or respirators may be needed. Protective gloves: When you use this product to prevent irritation, you should wear anti-seepage protective gloves.

Eye protection: Protective glasses are generally not necessary when using this product.

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However, safety goggles should still be worn if used with caution.

**Clothing:** This product is generally safe to use without special protective clothing. However, see the use of protective clothing for recommended use, which is a good industrial practice. Wear clean overalls or protective clothing and preferably bring an apron.

**Safety boots:** Safety boots are recommended in industrial Settings. Wash your hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse.

### 9. Physical and chemical properties

**Appearance and smell:** Brown liquid

**Boiling point:** Not applicable at 25°C **vapor pressure:** 0.75mPa

**Flash point:** incombustible

**Flammability limit (%) :** not suitable for solubility in water: 8.4g/L (22°C)

### 10. Stability and reactivity

It is stable under normal conditions

### 11. Toxicological information

**Median lethal dose of species sex path**

**Rat male + female transoral** 1 669

**Male + female menstruum** 1 788

**Male + female rabbit menorrhea** 1 697

**Hamster male + female Transoral** 7120

**Rat male + female transdermal** 1 >3 100

**Male + female rabbit transdermal** 2 >6 000

**Rat male + female i.p.** 1 312

Rabbits showed minor eye irritation and skin irritation, guinea pigs did not sensitize.

### 12. Ecological information

**Environmental hazards:**

Do not feed exposed, treated seeds to wildlife and birds.

This product has been used in containers to avoid contaminating streams, rivers or waterways.

Metaxyl is actually non-toxic to birds, aquatic life and bees.

### 13. Disposal precautions

**Post-use disposal:** Break, squeeze or puncture and bury empty containers at local authorized landfills. If burial is not allowed down to 500 mm of treatment pits, and in order not to pollute the watercourse, desirable vegetation and roots for the purpose. Empty containers and products should not be burned.

**Disposal after an accident or spill:** Dispose of sealed containers at an approved local refuse disposal site.

### 14. Transport information

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Danger class or classification: general cargo

United Nations/NA Number: None

DOT Transport label: none

### 15. Regulatory information

Decomposition in soil and groundwater:

In wild conditions, metalaxyl has a half-life of 7 to 170 days in soil. Typical half-life in moist soil is about 70 days. Increased sunlight may increase the rate of decomposition in the soil. The product is not easily absorbed by soil but highly soluble in water, which, combined with its long-term persistence, can pollute groundwater. Although adding organic matter may reduce leaching rates, it filters sandy soils easily. In a large, national survey, Mefroxyl was detected in groundwater in several states at levels between 0.27 micrograms per liter and 2.3 milligrams per liter.

Decomposition in water:

The half-life in water is greater than 4 weeks at pH 5 to 9 and temperature 20 to 30°C. However, the half-life of exposure to sunlight is reduced to 1 week.

In the decomposition of vegetation:

The stems and leaves of the plant absorb the foliar spray and deliver it to the whole plant. Plants cannot absorb methylene from the soil. The parent compound is mainly residual in potato tubers and grapes, but in potato leaves and lettuce, the metabolite is the main product.

### 16. Additional information

This material safety data sheet provides certain basic health and safety information. This information should be read carefully. This product can be dangerous if not handled or used correctly. You should not use the product until you have read this information and feel that it meets your needs.

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