

## SAFETY DATA SHEET



## MaTri Powder

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## 1. Identification

## Product identifier

Trade name: **MaTri Powder**

## Other means of identification

REGISTRATION NO. 35998 PEST CONTROL PRODUCTS ACT

## Recommended use

Identified uses: Plant protection product – growth regulator in form of powder that when dissolved in water secretes vapors of 1-methylcyclopropene (1-MCP). Intended for improvement of storage stability of fruits, vegetables and cut flowers.

## Restrictions on use

For Agriculture Use Only

## Supplier Identifier

Fresh Inset Solutions Inc.

119 S. Court Avenue

Suite 201

Memphis, TN 38103

Phone: (267) 808-0540

## Emergency telephone number

CHEMTREC: 1-800-424-9300 (24 hours)

## 2. Hazard identification

## Hazard classification

## Classification according to the Hazardous Products Regulations (HPR) (WHMIS)

This product is not classified as hazardous under WHMIS / HPR.

## Label elements

Symbol: none

Signal word: none

## Hazard statement(s)

none

## Precautionary statement(s)

## P280

Wear protective gloves/protective clothing/eye protection/face protection

## P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## P337+P313

If eye irritation persists: Get medical advice/attention.

## Other hazards which do not result in classification

When mixed with or exposed to water, the product releases 1-methylcyclopropene (1-MCP) vapors. Avoid inhalation of vapors generated during activation and use.

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## 3. Composition/Information on ingredients

| Chemical name         | CAS number | Concentration % |
|-----------------------|------------|-----------------|
| 1-Methyl-cyclopropene | 3100-04-7  | 3.3             |

## 4. First-aid measures

**General recommendations**

Avoid contamination of skin, eyes and clothing. In case of exposure immediately remove all contaminated clothing. Take off contaminated clothing and wash before reuse. In case of accident or if you feel unwell seek medical advice immediately (show the label when possible).

**First-aid measures by route of exposure****Inhalation**

Move person to fresh air and keep comfortable for breathing.

**Skin contact**

If skin irritation occurs: Get medical advice/attention.

**Eye contact**

Wash immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If eye irritation persists: Get medical advice/attention.

**Ingestion**

Do not induce vomiting unless specifically advised by a doctor. Wash mouth with water. Do not administer anything orally if the victim is unconscious.

**Most important symptoms and effects (acute or delayed)**

The product is characterized by low acute toxicity.

May cause skin or eye irritation.

Vapors may cause irritation.

**Immediate medical attention and special treatment needed, if necessary**

The decision on how to proceed made by a doctor after examination of the injured.

Treat symptomatically.

Antidote: none

## 5. Fire-fighting measures

**General recommendations**

Remove from the area all unauthorized personnel and persons not participating in elimination of the fire. Eliminate sources of ignition, do not smoke. If necessary call the Fire Service.

**Suitable extinguishing media**

Foam, dry chemicals, carbon dioxide, sand or earth; if necessary use water spray.

Use extinguishing methods suitable for the surrounding fire.

**Unsuitable extinguishing media**

Avoid high-volume direct water jets where they may disperse product dust.

**Specific hazards arising from the hazardous product****Hazardous combustion products**

During fire dangerous gases may be evolved: carbon oxides (COx), nitrogen oxides (NOx), hydrogen chloride gas. Exposure to products of combustion may be a health hazard. Do not breathe fumes, gases or vapor.

**Special protective equipment and precautions for fire-fighters**

Use full protective clothing and a self-contained breathing apparatus. Isolate the exposed area. Isolate the water used for elimination of fire, do not allow it to enter sewers. Containers exposed to fire with water spray.

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## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Use personal protective measures – protective clothing, protective gloves, face shield. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Dismiss unauthorized personnel not wearing protective equipment. Avoid contact with spilled or released material. Restrict access to the affected area until the cleanup is complete.

**Environmental precautions**

Do not empty into drains. Do not allow the product to enter sewers, ditches or waterways. Use appropriate containment to avoid environmental contamination. In the case of environmental contamination notify the relevant services.

**Methods and materials for containment and cleaning up**Small spillage

Avoid generating dust. Keep away from ignition sources during cleanup.

Collect immediately mechanically or by vacuum and place in appropriate waste container then place to a labeled waste container.

Large spillage

Avoid formation of dust. Isolate the spillage area. Collect with an electrically secured vacuum or wet sweep and place in appropriate waste container. For proper cleanup wash the spillage area with plenty of water.

## 7. Handling and storage

**Precautions for safe handling**

Follow the Occupational Safety and Health rules and regulations on handling chemicals.

Use personal protective measures listed in Section 8.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Wash hands before every break and after work.

Work only in well-ventilated rooms.

Avoid contact with skin and eyes.

**Conditions for safe storage (including incompatible materials)**

Store only in original containers, tightly closed in a dry, well-ventilated place at temperature not lower than 0°C (32°F) and not exceeding 30°C (86°F).

Store in a place inaccessible to unauthorized personnel.

Keep away from children and animals.

Do not store with food, drink or animal foodstuffs.

Store away from heat and hot surfaces

## 8. Exposure controls/Personal protection

**Control parameters, including occupational exposure guidelines or biological exposure limits and the source of those values****Ingredients with limit values that require monitoring at the workplace**

| Substance | CAS | Workplace exposure limit    |                    |                              |                    | Notation |
|-----------|-----|-----------------------------|--------------------|------------------------------|--------------------|----------|
|           |     | Long-term                   |                    | Short-term                   |                    |          |
|           |     | Exposure limit              |                    | exposure limit               |                    |          |
|           |     | (8-hr TWA reference period) |                    | (15 minute reference period) |                    |          |
|           |     | ppm                         | mg.m <sup>-3</sup> | ppm                          | mg.m <sup>-3</sup> |          |
| --        | --  | --                          | --                 | --                           | --                 | --       |

**Appropriate engineering controls**

The need for and selection of appropriate security measures should take into account the type of threat posed by

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the product, workplace conditions and the treatment of the product.

**Individual protection measures****Personal protective equipment**

Wear long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves made of any waterproof material when handling this product.

**Respiratory protection**

Avoid breathing vapors generated during activation and use. Use only with adequate ventilation. Do not enter enclosed treatment areas until the area has been ventilated as directed on the product label, unless wearing the appropriate PPE.

**PPE required for early entry into enclosed areas prior to venting**

Long-sleeved shirt and long pants.

Shoes plus socks.

Chemical-resistant gloves made of any waterproof material.

A NIOSH-approved respirator with an organic vapour cartridge with a combination N, R, or P filter with NIOSH approval prefix TC-84A; or a NIOSH-approved gas mask with an organic vapour canister with NIOSH approval prefix TC-14G.

**Thermal hazards**

Not applicable

**Environmental exposure controls**

Do not empty into drains. Use containers to prevent the uncontrolled release into the environment of concentrate.

**9. Physical and chemical properties**

|                                                           |                          |
|-----------------------------------------------------------|--------------------------|
| Physical state                                            | Powder, solid            |
| Colour                                                    | White                    |
| Odour                                                     | Odorless                 |
| Melting point and Freezing point                          | No data available        |
| Boiling point, or initial boiling point and boiling range | No data available        |
| Flammability                                              | No data available        |
| Lower flammability or explosion limit                     | No data available        |
| Upper flammability or explosion limit                     | No data available        |
| Flash point                                               | No data available        |
| Auto-ignition temperature                                 | No data available        |
| Decomposition temperature                                 | No data available        |
| pH                                                        | 5.7 (1% solution)        |
| Kinematic viscosity                                       | No data available        |
| Solubility                                                | No data available        |
| Partition coefficient - n-octanol/water                   | No data available        |
| Vapour pressure                                           | No data available        |
| Density and relative density                              | 0.50 g/mL (bulk density) |
| Relative vapour density                                   | No data available        |
| Particle characteristics                                  | No data available        |

**10. Stability and reactivity****Reactivity**

Not reactive if used according to specifications.

**Chemical stability**

Under normal storage and use of the substance is chemically stable.

**Possibility of hazardous reactions**

Hazardous reactions, including hazardous polymerization, do not take place.

**Conditions to avoid**

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Avoid temperatures beyond the recommended storage range. Protect from direct sunlight.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous reactions will not occur.

**11. Toxicological information****Likely routes of exposure**

Oral or dermal

**Symptoms related to the physical, chemical and toxicological characteristics**

Inhalation: No data available

Eye: No data available

Skin: No data available

Ingestion: No data available

**Delayed and immediate effects, and chronic effects from short-term and long-term exposure**

No data available

**Numerical measures of toxicity, including acute toxicity estimates (ATEs)**

Acute oral toxicity (rat): (1-MCP): LD50 > 5000 mg/kg, HSDB

Acute inhalation toxicity (rat): (1-MCP): LC50/4h > 2.5 mg/l

Acute dermal toxicity (rabbit): (1-MCP): LD50 > 2000 mg/kg, HSDB

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

Non-sensitizing

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**12. Ecological information****Ecotoxicity**

Based on available data, the classification criteria are not met. However this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability**

No data

**Bioaccumulative potential**

No data

**Mobility in soil**

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No data

**Other adverse effects**

No data

**13. Disposal considerations****Waste treatment methods**

Dispose of in accordance with current regulations.

Do not empty into drains. Do not contaminate surface waters (ponds, water ways, ditches). Disposal should be made in accordance with applicable regional, national and local regulations.

**Disposal of containers**

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty outer foil package in trash.

**14. Transport information****UN number**

Not applicable

**UN proper shipping name**

Not applicable

**Transport hazard class(es)**

Not applicable

**Packing group**

Not applicable

**Environmental hazards**

Not applicable

**Special precautions**

Not applicable

**15. Regulatory information****Safety, health and environmental regulations specific to the product****Canada**

Workplace Hazardous Materials Information System (WHMIS)

Hazardous Products Act and the Hazardous Products Regulations (HPR)

**WHMIS Status:** This product is not classified as hazardous under the Hazardous Products Regulations (HPR) / WHMIS.

**DSL Status:** All components of this product are listed or exempt from listing on the Canadian Domestic Substances List (DSL).

**Pest Control Products Act**

REGISTRATION NO. 35998 PEST CONTROL PRODUCTS ACT

This pest control product is to be used only in accordance with the directions on the approved label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

Read the approved label authorized under the Pest Control Products Act prior to using or handling this pest control product.

**Difference between SDS and Pest Control Products Act label**

This product is regulated by Health Canada's Pest Management Regulatory Agency and is subject to labelling requirements under the Pest Control Products Act. These requirements may differ from the classification criteria and hazard communication elements used in GHS-consistent safety data sheets. In the event of any discrepancy between this SDS and the approved product label, the approved label prevails.

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#### 16. Other information

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##### Training Advice

Workers must be trained in the safe handling, storage, use, and disposal of this product in accordance with applicable federal, provincial, and territorial occupational health and safety requirements, WHMIS workplace training requirements where applicable, and the approved Pest Control Products Act label. Users must read and follow the approved label before using or handling this pest control product.

##### Abbreviations and Acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

##### Note to readers

Safety data sheet compiled on the basis of producer/distributor data.

The product described in the safety data sheet should be stored and used in accordance with good industrial practices and in compliance with all applicable legal regulations.

The information contained in the safety data sheet is based on the current state of knowledge and is intended to describe the product in terms of health, safety and environmental regulations. It should not be considered a guarantee of any specific product properties.

We cannot make any representations or warranties regarding the accuracy or completeness of any information provided or the quality or specifications of any products, substances or mixtures discussed herein.

The user is responsible for creating conditions for the safe use of the product and for the consequences of its misuse.

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