

# M A T E R I A L   S A F E T Y   D A T A   S H E E T

## MotherEarth™ 2% Py Contact Insecticide

### EMERGENCY PHONE NUMBERS:

**MEDICAL:** 800-225-3320 (Prosar)

**TRANSPORTATION:** 800-424-9300 (Chemtrec)

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MotherEarth™ 2% Py Contact Insecticide  
**EPA Reg. No.:** 499-520  
**Product Code:** 02-0719  
**EPA Signal Word:** CAUTION  
**Distributed by:** Whitmire Micro-Gen Research Laboratories, Inc.  
 3568 Tree Court Industrial Blvd.  
 St. Louis MO 63122-6682

### SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### COMPOSITION INFORMATION

| ACTIVE INGREDIENT (2.0%)  | %           | CAS NO.   |
|---------------------------|-------------|-----------|
| Pyrethrins                | 2.0         | 8003-34-7 |
| OTHER INGREDIENTS (98.0%) | %           | CAS NO.   |
| 2-propanone               | proprietary | 67-64-1   |
| Dimethyl Ether            | proprietary | 115-10-6  |

#### EXPOSURE INFORMATION

| MATERIAL       | OSHA PEL |         | ACGIH TLV            |                     |
|----------------|----------|---------|----------------------|---------------------|
|                | STEL     | TWA     | STEL                 | TWA                 |
| Pyrethrins     | NE       | NE      | 10 mg/m <sup>3</sup> | 5 mg/m <sup>3</sup> |
| 2-propanone    | NE       | 750 ppm | 1,000 ppm            | 750 ppm             |
| Dimethyl Ether | NE       | NE      | NE                   | 1,000 ppm           |

### SECTION 3. HAZARDS IDENTIFICATION

#### SIGNS/SYMPTOMS OF EXPOSURE

A few cases of extrinsic asthma have been reported for Pyrethrins. Product may produce eye irritation; avoid contact with eyes. Prolonged exposure may cause skin irritation; avoid contact with skin.

#### ROUTES OF ENTRY

**Primary:** Inhalation      **Secondary:** Skin      **Tertiary:** Ingestion

#### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in open flame will result in carbon dioxide and carbon monoxide.

#### UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

### SECTION 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Describe any symptoms and follow the advice given.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 min. Call a poison control center or doctor for treatment advice.

**Eye Contact:** Hold eyes open and rinse slowly and gently with water for 15 - 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Note to Physician:** None

**Medical Conditions Generally Aggravated by Exposure:** None known

**Emergency Telephone Number of Prosar:** 800-225-3320 (for medical emergencies)

### SECTION 5. FIRE FIGHTING MEASURES

#### FIRE AND EXPLOSION

**Flame Projection:** 26"

**Flash Point (Tag Closed Cup):** NE

**Flammable Limits of propellant in Air (% by volume):**

Lower (LEL) = 3.4%      Upper (UEL) = 18%

**NFPA 30B Flammability:** Level I Aerosol

#### UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

#### IN CASE OF FIRE

**Extinguisher Media:** CO<sub>2</sub>; Dry Chemical; Foam

**Special Fire Fighting Procedures:** None required

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### IN CASE OF SPILL OR LEAK

If container begins to leak (through puncture, etc.), eliminate all ignition sources and allow to discharge completely in well ventilated area, then dispose of as directed below. This product contains the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) listed chemicals *Pyrethrins* which has a reportable quantity (RQ) of 1 lb and *2-Propanone* which has a reportable quantity (RQ) of 5,000 lbs. A release of more than 56 lbs of this product (approx. 50 containers) is reportable to the National Response Center (800-424-8802).

**Emergency Telephone Number of Chemtrec:** 800-424-9300 (for transportation spills)

#### PROTECTIVE EQUIPMENT

**Eyes:** Use proper protection – safety glasses are recommended.

**Skin:** Wear chemical-resistant gloves. Wash hands after handling material. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

**Inhalation:** Use of a respirator may be appropriate when working with spills in enclosed or confined spaces, or when prolonged exposure to product vapor or spray mist may occur. When using a respirator, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

#### WASTE DISPOSAL METHOD

Do not contaminate water, food or feed by storage or disposal of waste. Take full or leaking containers to a local disposal company for biological treatment or incineration. Review all local, state and federal regulations concerning health and pollution to determine approved disposal procedures. NEVER PLACE WASTE DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

### SECTION 7. HANDLING AND STORAGE

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children.

#### PHYSICAL OR CHEMICAL HAZARDS

Flammable. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

#### OTHER PRECAUTIONS

Do not spray on plastic, painted or varnished surfaces or directly into any electronic equipment such as radios, televisions, computers, etc. Aerosols work best when can temperature is above 60°F. If can temperature is below 60°F, store at room temperature until a temperature above 60°F is reached.

#### STORAGE

Do not contaminate water, food or feed by storage. Store in a cool, dry area away from heat and open flame and inaccessible to children.

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### SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Respiratory Protection:** None required for typical use exposure. See Section 6 for atypical exposures.

**Protective Gloves:** None required. Chemical-resistant gloves are recommended if prolonged or repeated skin contact is likely. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

**Eye Protection:** None required. Use of safety glasses is recommended.

**Other Protective Equipment:** None required

#### VENTILATION

**Local Exhaust:** Not required

**Mechanical:** Provide adequate ventilation of treatment area.

**Special:** Not required

**Other:** Not required

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Coarse Spray

**Solubility in Water:** Soluble

**Viscosity:** 1.27 cps at 21.5°C

**Boiling Point:** NE

**pH:** 5.272 at 24°C

**Odor:** Characteristic Pyrethrins odor

**Vapor Pressure:** NE

**Vapor Density:** NE

**Freezing/Melting Point:** NE

**Specific Gravity:** 0.8744 g/cm<sup>3</sup> at 20°C

### SECTION 10. STABILITY AND REACTIVITY

#### REACTIVITY

**Stability:** Indefinite when used according to label directions.

**Conditions to Avoid:** High heat, sparks and open flame.

**Incompatibility (materials to avoid):** None known

**Hazardous Polymerization:** Will not occur

#### HAZARDOUS DECOMPOSITION PRODUCTS

Violent decomposition can occur if heated in the presence of peroxides.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### ROUTES OF ENTRY

**Primary:** Inhalation

**Secondary:** Skin

**Tertiary:** Ingestion

#### ACUTE

**Eyes:** Minimally irritating to the eye. Conjunctivitis was observed at 24 hr but within 48 hr all treated eyes were free from irritation. No corneal opacity or iritis observed (rabbits).

**Skin:** Acute dermal toxicity - LD<sub>50</sub> (rats) > 5,000 mg/kg. Product is a contact sensitizer when tested on guinea pigs. Primary skin irritation = 3.0 (rabbits). Product produced moderate to mild to slight erythema and edema through day 7 but was completely gone by day 10 when tested on rabbits.

**Ingestion:** Acute oral toxicity: LD<sub>50</sub> > 5,000 mg/kg (rats).

**Inhalation:** Unlikely due to the product being pressurized and producing particles large enough not to be respirable. Acute inhalation toxicity: LC<sub>50</sub> > 2.06 mg/L (rats).

#### CHRONIC / CARCINOGENICITY

Neither this product nor any of its ingredients are classified as carcinogens by the National Toxicity Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

### SECTION 12. ECOLOGICAL INFORMATION

Product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

### SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal. Dispose of containers and wastes in accordance with all federal, state and local regulations.

**Container Disposal:** Do not puncture or incinerate! Empty container by using the product according to the label directions. Offer empty container for recycling, if available, or place in trash if allowed by state and local regulations. If container is partly full, contact your local solid waste agency for disposal instructions.

**Waste Disposal:** Waste resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

### SECTION 14. TRANSPORT INFORMATION

#### SHIPMENT BY GROUND WITHIN U.S. (DOT CLASSIFICATION)

**Proper Shipping Description:** Consumer Commodity, ORM-D

**Package Marking:** Consumer Commodity, ORM-D

**Package Labeling:** No label required

**Certified Packaging:** Not required

#### SHIPMENT BY WATER OR AIR (IMDG, ICAO/IATA CLASSIFICATION)

No information available.

Product in unopened original packaging is compliant with all regulations for ground shipment within the U.S. WMG disclaims any liability for claims or damages that may result from shipment by other means. Consult appropriately trained shipping professional before offering for shipment by water or air.

### SECTION 15. REGULATORY INFORMATION

#### CERCLA

This product contains the CERCLA listed chemical *Pyrethrins* which has a reportable quantity (RQ) of 1 lb and *2-propanone* which has a reportable quantity (RQ) of 5,000 lbs.

#### SARA TITLE III SECTION 311/312 HAZARD CLASS

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard

Fire Hazard

Release of Pressure (puncture) Hazard

#### SARA TITLE III SECTION 313 CHEMICALS

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372 in concentrations above the de minimis concentration level.

#### TSCA

All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

### SECTION 16. OTHER INFORMATION

#### NFPA HEALTH RATING INFORMATION

HEALTH - 1      FLAMMABILITY - 1      REACTIVITY - 1

#### HMIS HAZARD RATING INFORMATION

HEALTH - 1      FLAMMABILITY - 1      REACTIVITY - 1

KEY: 4 = Severe  
3 = Serious  
2 = Moderate  
1 = Slight  
0 = Minimal

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. **For automatic MSDS updates, register at [www.wmg.com](http://www.wmg.com).**

Questions concerning the safe handling of the product should be referred to the Whitmire Micro-Gen Customer Service department at 800-777-8570.

NA - Not Applicable  
NE - Not Established  
PEL - Permissible Exposure Limit  
TLV - Threshold Limit Value  
STEL - Short Term Exposure Limit (15 min)  
TWA - Time Weighted Average (8 hr)



**WHITMIRE MICRO-GEN**  
RESEARCH LABORATORIES, INC.

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