

Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • **Doktor Doom® Spider Mite Knock Out Insecticide Plant Spray for Tomatoes and Vegetables**

Synonyms • Backyard Farmer Tomato and Vegetable Insect Spray

Product Code • EPA Reg. No.: 2724-568-72804

Chemical Category • Pyrethrins including cinerins, Pyrethroid pesticide

Product Description • Aerosol spray insecticide.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Provides rapid control of insects.

Restrictions on use • Keep away from heat, sparks and flames; Use in well ventilated area; Avoid contact with skin and eyes. Keep out of reach of children.

Details of the supplier of the safety data sheet

Manufacturer • Ultrasol Industries Limited

10755 - 69 Avenue
Edmonton, Alberta
CANADA T6H 2C9

www.doktordoom.com

Emergency telephone number

Manufacturer • 1-800-452-0023

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Collect Calls Accepted Outside the US

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Flammable Aerosols 2 - H223
Aspiration 1 - H304

Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Flammable aerosol - H223
 - Eye Mild Irritation 2B - H320
 - Causes skin irritation - H315
 - Toxic to aquatic life - H401
 - May be fatal if swallowed and enters airways - H304
 - Toxic if swallowed or if inhaled - H301+H331

Precautionary statements

- Prevention**
- Avoid breathing dust, fume, gas, mist, vapors and/or spray. - P261
 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
 - Pressurized container: Do not pierce or burn, even after use. - P251
 - Use only outdoors or in a well-ventilated area. - P271
 - Wash thoroughly after handling. - P264
 - Wear protective gloves/protective clothing/eye protection/face protection. - P280

- Response**
- Specific treatment, see supplemental first aid information. - P321

- Storage/Disposal**
- Store at room temperature. Avoid temperatures exceeding 130 F
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501
 - Store in a well-ventilated place. Keep container tightly closed. - P403+P233
 - Store locked up. - P405
 - Do not contaminate water, food or feed by storage

Other hazards

OSHA HCS 2012

- No data available; does not meet hazard criteria.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

| Composition | | | |
|---------------|-------------|------------|---|
| Chemical Name | Identifiers | % | Classifications According to Regulation/Directive |
| Pyrethrin | 8003-34-7 | 0.2% | OSHA HCS 2012: Acute Tox. Dermal 4; Acute Tox. Inhal. 4; Acute Tox. Oral 4; STOT SE 3: Resp. Irrit. |
| Proprietary | Proprietary | < 0.5% | OSHA HCS 2012: Not classified - Does not meet criteria |
| Proprietary | Proprietary | < 0.5% | OSHA HCS 2012: Not classified - Does not meet criteria |
| Proprietary | Proprietary | < 1% | OSHA HCS 2012: Not classified - Does not meet criteria |
| Proprietary | Proprietary | 1% TO 5% | OSHA HCS 2012: Not classified - Does not meet criteria |
| Proprietary | Proprietary | 3% TO 10% | OSHA HCS 2012: Not classified - Does not meet criteria |
| Proprietary | Proprietary | 5% TO 15% | OSHA HCS 2012: Not classified - Does not meet criteria |
| Proprietary | Proprietary | 5% TO 15% | OSHA HCS 2012: Not classified - Does not meet criteria |
| Proprietary | Proprietary | 60% TO 80% | OSHA HCS 2012: Not classified - Does not meet criteria |

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation** • Call a poison control center or doctor immediately for treatment advice. If not breathing, give artificial respiration. Move victim to fresh air.
- Skin** • Take off contaminated clothing and wash before reuse. Call a physician or poison control center. Rinse skin immediately with plenty of water for 15-20 minutes.
- Eye** • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center.
- Ingestion** • Do not induce vomiting unless told to by a poison control center or doctor. Have person sip a glass of water if able to swallow. Call a physician or poison control center.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

- Notes to Physician** • May present an aspiration hazard.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media** • Use CO2, dry chemical, or foam.
- Unsuitable Extinguishing Media** • No data available.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards** • Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.
- Hazardous Combustion Products** • Thermal degradation may produce oxides of carbon and/or nitrogen.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Do not allow run-off to enter waterways.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions** • Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Ventilate the area.
- Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

- Containment/Clean-up Measures** • Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Keep away from fire. Keep away from heat. Avoid contact with skin, eyes, and clothing. Do not breathe (dust, vapor or spray mist)

Conditions for safe storage, including any incompatibilities

Storage • Keep away from fire. Do not contaminate water, food, or feed by storage or disposal. Do not store above 130°F (55°C). Store in a cool, dry place. NFPA Aerosol Classification: Level 1. Store locked up.

Incompatible Materials or Ignition Sources • Strong acids, strong bases, and oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • No data available.

| Exposure Limits/Guidelines | | | | |
|----------------------------|--------|--|------------------------------|------------------------------|
| | Result | ACGIH | NIOSH | OSHA |
| Pyrethrin (8003-34-7) | TWAs | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA |
| Proprietary (Proprietary) | TWAs | 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4) | 1000 ppm TWA; 1800 mg/m3 TWA | 1000 ppm TWA; 1800 mg/m3 TWA |
| Proprietary (Proprietary) | STELs | 1000 ppm STEL | Not established | Not established |
| | TWAs | Not established | 800 ppm TWA; 1900 mg/m3 TWA | Not established |

Exposure Control Notations

ACGIH

•Pyrethrin (8003-34-7): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure Limits Supplemental

ACGIH

•Proprietary: **TLV Basis - Critical Effects:** (cardiac sensitization (listed under Aliphatic hydrocarbon gases: Alkanes C1-4); CNS impairment (listed under Aliphatic hydrocarbon gases: Alkanes C1-4))

•Proprietary: **TLV Basis - Critical Effects:** (CNS impairment)

•Pyrethrin (8003-34-7): **TLV Basis - Critical Effects:** (liver damage; lower respiratory tract irritation)

Exposure controls

Engineering • No data available

Measures/Controls

Personal Protective Equipment

Respiratory • No data available

Eye/Face • Wear safety glasses.

Hands • Wear appropriate gloves.

Skin/Body • Wear long sleeves and/or protective coveralls.

General Industrial Hygiene Considerations • Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking.

Environmental Exposure Controls • Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

| Material Description | | | |
|-------------------------------------|--------------------|------------------------|--------------------|
| Physical Form | Aerosol | Appearance/Description | Hazy liquid spray. |
| Color | Hazy yellow. | Odor | Solvent smell. |
| Aerosol Type | Spray | Odor Threshold | No data available |
| Physical and Chemical Properties | No data available | | |
| General Properties | | | |
| Boiling Point | No data available | Melting Point | No data available |
| Decomposition Temperature | No data available | pH | 6.98 |
| Specific Gravity/Relative Density | 0.98 Water=1 | Bulk Density | 8.163 lbs/gal |
| Water Solubility | Soluble | Viscosity | No data available |
| Volatility | | | |
| Vapor Pressure | No data available | Vapor Density | No data available |
| Evaporation Rate | No data available | | |
| Flammability | | | |
| Flash Point | No data available | UEL | No data available |
| LEL | No data available | Autoignition | No data available |
| Flammability (solid, gas) | Flammable aerosol. | | |
| Environmental | | | |
| Octanol/Water Partition coefficient | No data available | | |

Section 10: Stability and Reactivity

Reactivity

- Non-reactive

Chemical stability

- Stable

Possibility of hazardous reactions

- Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Conditions to avoid

- Keep away from fire.

Incompatible materials

- Strong acids, strong bases, and oxidizing agents.

Hazardous decomposition products

- Carbon oxides.

Section 11 - Toxicological Information

Information on toxicological effects

| Component Name | CAS | Data |
|------------------|-----------|---|
| Pyrethrin (0.2%) | 8003-34-7 | Acute Toxicity: Ingestion/Oral-Rat, adult female LD50 • 1030 mg/kg; Ingestion/Oral-Rat, adult male LD50 • 2370 mg/kg; Inhalation-Rat LC50 • 3.4 mg/L; Skin-Rat LD50 • 2000 mg/kg |

| GHS Properties | Classification |
|-------------------------------|---|
| Acute toxicity | OSHA HCS 2012 •Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met |
| Aspiration Hazard | OSHA HCS 2012 •Aspiration 1 |
| Carcinogenicity | OSHA HCS 2012 •Classification criteria not met |
| Germ Cell Mutagenicity | OSHA HCS 2012 •Classification criteria not met |
| Skin corrosion/Irritation | OSHA HCS 2012 •Classification criteria not met |
| Skin sensitization | OSHA HCS 2012 •Classification criteria not met |
| STOT-RE | OSHA HCS 2012 •Classification criteria not met |
| STOT-SE | OSHA HCS 2012 •Classification criteria not met |
| Toxicity for Reproduction | OSHA HCS 2012 •Classification criteria not met |
| Respiratory sensitization | OSHA HCS 2012 •Classification criteria not met |
| Serious eye damage/Irritation | OSHA HCS 2012 •Eye Mild Irritation 2B |

Potential Health Effects

Inhalation

Acute (Immediate) • Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • Under normal conditions of use, no health effects are expected.

Skin

Acute (Immediate) • May cause mild irritation.

Chronic (Delayed) • Under normal conditions of use, no health effects are expected.

Eye

Acute (Immediate) • May cause minimal irritation.

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate) • Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • Under normal conditions of use, no health effects are expected.

Other

Chronic (Delayed) • No data available.

Mutagenic Effects • No data available.

Carcinogenic Effects • No data available.

Reproductive Effects • No data available.

Section 12 - Ecological Information

Toxicity

| Component | CAS | Data | Comments |
|------------------|-----------|--|----------|
| Pyrethrin (0.2%) | 8003-34-7 | Crustacea: 96 Hour(s) LC50 Crustacea 1.4 µg/L ; 48 Hour(s) EC50 Water Flea 12 µg/L ; Fish: 96 Hour(s) Fish 2900 µg/L ; 96 Hour(s) LC50 Fish 10 µg/L ; 96 Hour(s) LC50 Fish 5.2 µg/L ; 96 Hour(s) LC50 Fish 16 µg/L ; Other: 96 Hour(s) LC50 Other 87 µg/L | NDA |

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects

Ecological Fate • Active Ingredient Only: Pyrethrins are toxic to fish. Do not discharge effluent containing these components into sewer systems without previously notifying the local sewage treatment plant authority. Do not contaminate water by cleaning of equipment or disposal of wastes.

Potential Environmental Effects • This product is toxic to fish.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate.

Section 14 - Transport Information

| | UN number | UN proper shipping name | Transport hazard class(es) | Packing group | Environmental hazards |
|-----------|-----------|---|----------------------------|---------------|------------------------|
| DOT | UN1950 | Aerosols, flammable, n.o.s. (each not exceeding 1 L capacity) | 2.1 | NDA | Marine Pollutant |
| IMO/IMDG | UN1950 | Aerosols | 2.1 | NDA | Marine Pollutant |
| IATA/ICAO | UN1950 | Aerosols, Flammable | 2.1 | NDA | Acute Aquatic Toxicity |

Special precautions for user • No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

FIFRA – Pesticide Labeling

CAUTION

Precautionary Statements • Hazards to Humans and Animals: CAUTION: Harmful if swallowed or absorbed through skin. Avoid breathing vapors or spray mist. Avoid contact with skin and eyes. In case of contact, immediately flush eyes or skin with plenty of water. Obtain medical attention if irritation persists.

Hazards to Humans and Domestic Animals • CAUTION: Harmful if swallowed or absorbed through skin. Avoid breathing vapors or spray mist. Avoid contact with skin and eyes. In case of contact, immediately flush eyes or skin with plenty of water. Obtain medical attention if irritation persists.

First Aid • IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice. IF SWALLOWED: 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. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. IF INHALED: 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. HOTLINE NUMBER: Have product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-757-4943 for emergency medical treatment information.

Environmental Hazards • This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of waste.

Physical or Chemical Hazards • Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130 F may cause bursting.

| Inventory | | |
|-------------|-------------|------|
| Component | CAS | TSCA |
| Proprietary | Proprietary | Yes |
| Proprietary | Proprietary | Yes |
| Proprietary | Proprietary | Yes |
| Proprietary | Proprietary | Yes |
| Proprietary | Proprietary | Yes |
| Proprietary | Proprietary | Yes |
| Proprietary | Proprietary | Yes |
| Pyrethrin | 8003-34-7 | No |

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

| | | |
|---|-------------|--|
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Pyrethrin | 8003-34-7 | 1 lb final RQ (listed under Pyrethrins); 0.454 kg final RQ (listed under Pyrethrins) |
| •Pyrethrin as Pyrethrins including cinerins | | Not Listed |

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

| | | |
|---|-------------|------------|
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Proprietary | Proprietary | Not Listed |
| •Pyrethrin | 8003-34-7 | Not Listed |
| •Pyrethrin as Pyrethrins including cinerins | | Not Listed |

Section 16 - Other Information

- Last Revision Date** • New
- Preparation Date** • 3/18/14
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