



Tyoga™ Miticide/Insecticide

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

| | |
|---------------------------|-----------------------------|
| Chemical Name | Mixture |
| Trade Names | Tyoga™ Miticide/Insecticide |
| CAS No. | Mixture |
| EPA Identification Number | EPA Reg. No. 71711-19-60063 |

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

| | |
|----------------------|--|
| Identified Use(s) | Miticide/Insecticide |
| Uses Advised Against | It is a violation of Federal law to use this product in a manner inconsistent with its labeling. |

Details of the supplier of the safety data sheet

| | |
|------------------------|---|
| Company Identification | Sipcam Agro USA, Inc. 2525 Meridian Parkway, Suite 100 Durham, NC 27713 United States of America |
| Telephone | (919) 226-1195 |

Emergency telephone number

| | |
|---------------------|---|
| Emergency Phone No. | CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted) |
|---------------------|---|

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|-----------------------------|--|
| OSHA HCS (29 CFR 1910.1200) | Flam. Liq. 4; Acute Tox. 3 (Inhalation); Acute Tox. 4 (oral); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Carc. 2; Asp. Tox. 1 |
|-----------------------------|--|

Label elements

This is a pesticide product registered with the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS) and for workplace labels of non pesticide chemicals. The labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol(s)



Signal Word(s)

DANGER

Hazard Statement(s)

Combustible liquid
Toxic if inhaled (Aerosol).
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May be fatal if swallowed and enters airways.



Tyoga™ Miticide/Insecticide

Precautionary Statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Avoid breathing mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wash hands and exposed skin thoroughly after handling.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.

IF ON SKIN: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Treat symptomatically.

IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

In case of fire: Extinguish with carbon dioxide, dry chemical, foam or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also Section 15.

Other hazards

Very toxic to aquatic life with long lasting effects.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Composition/information on ingredients | %W/W | CAS No. | Hazard Statement(s) |
|--|---------|-------------|---|
| Fenpyroximate | 5 | 134098-61-6 | Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 |
| Heavy aromatic naphtha * | 65 - 85 | 64742-94-5 | Flam. Liq. 4; H227 Carc. 2; H351 STOT-SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 2; H401 Aquatic Chronic 2; H411 |

Additional Information – Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below:

- * Contains: 2-methylnaphthalene (CAS No. 91-57-6), 1-methylnaphthlene (CAS No. 90-12-0), and Napthalene (CAS No. 91-20-3)

SECTION 4: FIRST AID MEASURES



Description of first aid measures

| | |
|---|--|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically. |
| Skin Contact | Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse. |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. |
| Ingestion | Immediately call a POISON CENTER/doctor. Rinse mouth. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Treat symptomatically. |
| Most important symptoms and effects, both acute and delayed | Toxic if inhaled (Aerosol). |
| Indication of any immediate medical attention and special treatment needed | Call a POISON CENTER or doctor/physician if you feel unwell. |

SECTION 5: FIRE-FIGHTING MEASURES

| | |
|--|--|
| Extinguishing Media -Suitable Extinguishing Media -Unsuitable Extinguishing Media | Extinguish with carbon dioxide, dry chemical, foam or water spray. None known. |
| Special hazards arising from the substance or mixture | Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen. Decontaminate equipment or materials used in pesticide fires. |
| Advice for fire-fighters | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Eliminate all ignition sources if safe to do so. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapours/spray. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. |
| Environmental precautions | Observe directions on label and instructions for use. See Also Section 15. |
| Methods and material for containment and cleaning up | Observe directions on label and instructions for use. See Also Section 15. |

Tyoga™ Miticide/Insecticide

Reference to other sections

Observe directions on label and instructions for use. See Also Section 15.

Additional Information

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. See Also Section 15.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at room temperature. Do not allow material to freeze.
-Incompatible materials Strong oxidising agents.

Specific end use(s)

Miticide/Insecticide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

| SUBSTANCE. | CAS No. | (8hr TWA) | | (STEL) | | Note: |
|-------------------------|------------|------------|---------------------------|------------|-------------|--------------------------|
| | | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| Diesel Fuel | 68476-34-6 | ----- | 100 mgm3 ^(IFV) | ----- | ----- | ----- |
| Kerosene | 8008-20-6 | ----- | 200 mgm3 ^(P) | ----- | ----- | ----- |
| Mineral oils / Oil Mist | ----- | 5 mg/m3 | 5 mg/m3 ^(I) | ----- | ----- | ^(I) Inhalable |
| Naphthalene | 91-20-3 | 50 mg/m3 | 10 ppm | ----- | ----- | Skin |
| Methylnaphthalenes | ----- | ----- | 0.05 ppm | ----- | ----- | Skin |

- ^(IFV) Inhalable fraction and vapor; ^(I) Inhalable fraction.; ^(P)Absent aerosol

Exposure controls

Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure course spray only. Observe directions on label and instructions for use. See Also Section 15.

Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Gloves. Observe directions on label and instructions for use. See Also Section 15.

Tyoga™ Miticide/Insecticide

Respiratory protection



Observe directions on label and instructions for use. See Also Section 15.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|----------------|
| Appearance | Liquid |
| Colour. | Pale yellow. |
| Odour | Aromatic. |
| Odour Threshold (ppm) | Not available. |
| pH (Value) | 6.13 |
| Melting Point (°C) / Freezing Point (°C) | Not available. |
| Boiling point/boiling range (°C): | Not available. |
| Flash Point (°C) | 85 (185 °F) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Explosive Limit Ranges | Not available. |
| Vapour pressure (Pascal) | Not available. |
| Vapour Density (Air=1) | Not available. |
| Density (g/ml) | 1.004 |
| Solubility (Water) | Not available. |
| Solubility (Other) | Not available. |
| Partition Coefficient (n-Octanol/water) | Not available. |
| Auto Ignition Point (°C) | Not available. |
| Decomposition Temperature (°C) | Not available. |
| Kinematic Viscosity (cSt) | 5.9 @ 40 °C |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |
| Other information | Not available. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | No hazardous reactions known if used for its intended purpose. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None anticipated. |
| Conditions to avoid | Incompatible materials |
| Incompatible materials | Strong oxidising agents. |
| Hazardous decomposition product(s) | Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen. Decontaminate equipment or materials used in pesticide fires. |

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects



Tyoga™ Miticide/Insecticide

Substances

Not applicable

Mixtures

Acute toxicity

Oral: LD50 = 600 mg/kg-bw (rat)
Dermal: LD50 >2000 mg/kg-bw (rat)
Inhalation: LC50 = 0.51 – 1.99 mg/L (rat) (Aerosol)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

It is not a skin sensitiser in animal tests.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

STOT - single exposure

Not available.

STOT - repeated exposure

Not available.

Aspiration hazard

Not available

Substances in preparations / mixtures

Fenpyroximate (CAS# 134098-61-6):

Acute toxicity

Oral LD50: 245 mg/kg-bw (rat)
Dermal LD50: >2000 mg/kg-bw (rat)
Inhalation LC50: 0.330 mg/L (4 hr) (rat) (aerosol)

Irritation/Corrosivity

Unlikely to cause skin irritation. Causes serious eye irritation.

Sensitization

Skin sensitisation has been reported in studies with guinea pigs.

Repeated dose toxicity

Not to be expected. NOAEL (2-year) = 0.97 mg/kg (rat)

Carcinogenicity

Not to be expected. NOAEL (2-year) = 0.97 mg/kg (rat)

| NTP | IARC | ACGIH | OSHA |
|-----|------|-------|------|
| No | No | No | No |

Mutagenicity

Not to be expected.

Reproductive toxicity

Not to be expected.

Heavy aromatic naphtha (CAS# 64742-94-5):

Acute toxicity

Oral: LD50 >5 g/kg-bw
Dermal: LD50 >2 g/kg-bw
Inhalation: LC50 >20 mg/l (Vapor), 4-hr. rat; May cause drowsiness or dizziness.

Irritation/Corrosivity

Unlikely to cause skin irritation. Causes serious eye irritation.

Sensitization

It is not a skin sensitizer.

Repeated dose toxicity

Not to be expected.

Carcinogenicity

Not to be expected. NOAEL (2-year) = 0.97 mg/kg (rat)

| NTP | IARC | ACGIH | OSHA |
|-------|-------|-------|------|
| No. * | No. * | No. | No. |

* Contains: Naphthalene (CAS No. 91-20-3). Reasonably anticipated to be a human carcinogen (NTP) / Possible Human Carcinogen (IARC 2B).

Mutagenicity

Not to be expected.

Reproductive toxicity

Not to be expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Fenpyroximate (CAS# 134098-61-6):

| | |
|------------|---|
| Short term | EC50 (96 hour): 0.002 mg/L (<i>Lepomis macrochirus</i>) EC50 (< 24-hr): 0.0036 mg/L (<i>Daphnia magna</i>) EC50 (96 hour): 0.026 mg/L (<i>Raphidocelis subcapitata</i>) |
|------------|---|

| | |
|-----------|---|
| Long Term | Very toxic to aquatic life with long lasting effects. |
|-----------|---|

Persistence and degradability

Part of the components are poorly biodegradable.

Bioaccumulative potential

Not to be expected.

Mobility in soil

Not available.

Results of PBT and vPvB assessment

Not classified as PBT.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also Section 15.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

| | Land transport (U.S. DOT) * | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|-------------------------------------|---|--|--------------------------------------|
| UN number | Not classified as dangerous for transport. * | UN 3082 | UN 3082 |
| Proper Shipping Name | | Environmentally hazardous substance, liquid, n.o.s. (Fenpyroximate) | |
| Transport hazard class(es) | | 9 | 9 |
| Packing group | | III | III |
| Hazard label(s) | | Marine Pollutant | Marine Pollutant |
| Environmental hazards | | Yes | Yes |
| Special precautions for user | | None Assigned | None Assigned |

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

* For bulk shipments in U.S. (>119 gallons), must be shipped as NA1993, Combustible Liquid, n.o.s. (Petroleum naphtha), Comb. Liq., PG III

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: This is a registered pesticide product regulated under Federal Insecticide, Fungicide, and Rodenticide Act and, therefore, the components of this product are not subject to listing on the TSCA inventory.



Tyoga™

Miticide/Insecticide

EPA FIFRA Information for SDS Section 15 (Regulatory Information):

This is a pesticide product registered with the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non pesticide chemicals.

The hazard information required on the pesticide label is reproduced below:

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING: Causes substantial but temporary eye injury. Harmful if inhaled or swallowed. Do not get in eyes or on clothing. Avoid contact with skin and breathing spray mist. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves (such as barrier laminate butyl rubber, nitrile rubber, or Viton™). Wear protective eyewear (safety glasses, goggles, or face shield).

PERSONAL PROTECTIVE EQUIPMENT (PPE).

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Protective eyewear
- Chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber and/or Viton™)
- Shoes plus socks

USER SAFETY REQUIREMENTS

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
- Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is very highly toxic to fish and aquatic invertebrates. For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having medium to high potential for reaching both surface water and aquatic sediment via runoff for several weeks after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this chemical from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

The pesticide label also includes other important information, including directions for use.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|---------|--------------|-------------|
| None | ---- | ----- | ----- |



Tyoga™ Miticide/Insecticide

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

| Chemical Name | CAS No. | Typical %wt. |
|---------------|---------|--------------|
| Naphthalene | 91-20-3 | 0.5 – 1.5 |

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) | TPQ (Pounds) |
|---------------|---------|--------------|-------------|--------------|
| None | ---- | ----- | ----- | |

Proposition 65 (California):

| Chemical Name | CAS No. | Typical %wt. | Hazards |
|---------------|---------|--------------|---------|
| Naphthalene | 91-20-3 | 0.5 – 1.5 | Cancer |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

Date of preparation: February 27, 2024

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H227: Combustible liquid.
- H301: Toxic if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H317: May cause an allergic skin reaction.
- H330: Fatal if inhaled.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H400: Very toxic to aquatic life.
- H401: Toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Sipcam Agro USA, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Sipcam Agro USA, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.