

Mavrik®

Perimeter

- **FOR COMMERCIAL USE ONLY ON OUTDOOR PLANTS IN ORNAMENTAL PLANTINGS, PLANTSCAPES (INCLUDING TREES AND SHRUBS) AND FOR PERIMETER TREATMENT AROUND BUILDINGS AND OUTSIDE SURFACES**
- **PERIMETER TREATMENT AGAINST A WIDE RANGE OF INSECTS INCLUDING MOSQUITOES AND FIRE ANTS**
- **IDEAL FOR APPLICATIONS WITHOUT THE WORRY OF WATERING-IN**
- **CONTAINS TAU-FLUVALINATE**
- **SMALL, EASY TO USE 8 OZ. BOTTLE**

SPECIMEN LABEL

ACTIVE INGREDIENT:

Tau-fluvalinate (CAS #102851-06-9) . . . 22.3%

OTHER INGREDIENTS: 77.7%

Total 100.0%

MAVRİK® PERIMETER is a flowable formulation containing 2 pounds tau-fluvalinate per gallon (240 g/L).

EPA Reg. No. 2724-478 EPA Est. No. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN
CAUTION
 READ COMPLETE DIRECTIONS AND
 PRECAUTIONS INSIDE

SHAKE WELL BEFORE USING

Not use on plants or trees being grown for sale or other commercial use, for commercial seed production, for the production of timber or wood products, or for research purposes. For use only on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks and grounds.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist or vapor. Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves (such as or made out of any waterproof material, selection category A).

FIRST AID

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 a 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 mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

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 eyes. • Call a poison control center for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear: • Long-sleeved shirt and long pants • Shoes and socks • Chemical-resistant gloves, and • A NIOSH approved respirator with dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or R, P, or HE filter.

Follow 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. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. This product is toxic to honey bees if bees are exposed to direct application. However, dried residues of this product are non-toxic to honey bees. Treat during non-foraging periods to minimize adverse effects. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply when weather conditions favor drift from the target area. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **Pesticide Storage:** Store in a cool, dry place. Pesticides must be stored in a secured area away from other products, food, or feed. Keep pesticide storage areas clean. Always store pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents. In case of a spill or leak, soak up with soil or other absorbent material. Do not use caustic agents. **Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or disposal program (often such programs are run by state or local governments or by industry). **Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

STORAGE AND DISPOSAL (CONTINUED)

Then offer for recycling, if available or puncture or dispose of in a sanitary landfill, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

GENERAL PRECAUTIONS/RESTRICTIONS

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Keep unprotected people, children and pets out of treated area until spray has dried. Some sensitive pets eating or coming in contact with freshly treated plants may demonstrate vomiting and respiratory distress.

Do not apply this product by aerial application or through any type of irrigation system.

GENERAL DIRECTIONS

MAVRIK® PERIMETER controls insects and controls or suppresses mite pests when used at labeled rates. MAVRIK® PERIMETER works primarily through contact action, good spray coverage is necessary. Treat when pests are immature or at a susceptible stage and populations are manageable, before damage occurs. Repeat applications as needed, according to the specific use directions given in this label. Residues of MAVRIK® PERIMETER can continue to control certain insect pests for a week or longer. Growth dilution, climatic variables, and pest habits determine retreatment needs.

Dilute MAVRIK® PERIMETER in sufficient water to give thorough spray coverage [based on previous experience]. For best results under varying conditions, a range of use rates is recommended for most uses. Select the higher rates when pest pressure or damage potential is severe. The lower rates often give acceptable economic results. Buffer spray water to pH 5-7, if necessary.

For severe mite infestations, use the highest rate of MAVRIK® PERIMETER and use an acaricide in an alternate treatment program. The use of a spreader-sticker, insecticidal soaps, or piperonyl butoxide may improve control of mites and some insects, such as, whiteflies, aphids, thrips, and mealybugs. When MAVRIK® PERIMETER is mixed with wettable powders, add powders to the tank first using good agitation. Check for physical and biological compatibility prior to use.

Dried residues of MAVRIK® PERIMETER are non-toxic and non-repellent to honey bees. Treat during non-foraging periods to minimize adverse effects.

Consult your local extension office, pest management consultant, or a Wellmark International specialist for guidance in selecting a rate and timing schedule or mixing combination that has demonstrated good performance under specific conditions.

**AMOUNT MAVRIK® PERIMETER
IN WATER TO MAKE**

| SITE | PEST | 5 GALLONS | 1 GALLON | SPECIFIC DIRECTIONS |
|--|--|---|--|--|
| <p>For Outdoor Applications: Use lower rates and greater re-treatment intervals for light to moderate insect pressures. Use higher rates and shorter re-treatment intervals for green peach aphids, unexposed insects and heavy pressures of other insects. Mite suppression can be obtained using the lower rate; for more residual control of mites, use up to 0.5 fl oz/5 gallons water [0.1 fl oz/1 gallon of water].</p> | | | | |
| <p>Perimeter Treatments to include Outside Surfaces</p> | <p>Aphids, Thrips, Mites, Clover Mites, Two-Spotted Spider Mites, Whiteflies, Mealybugs, Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.), Ticks, Brown Dog Ticks, American Dog Ticks, Deer Ticks, Fleas, Ants, Fire Ants, Crickets, rmyworms, Cutworms, Springtails (Collembola), Adelgids, Mosquitoes, Chiggers*, Earwigs, Lygus Plant Bugs, Beetles (Flea, Cucumber, Elm Leaf), Leafhoppers, Weevils* (Strawberry Root, Obscure Root, Blackvine Root), Psyllids, Millipedes*, American Cockroaches, Smoky Brown Cockroaches, Oriental Cockroaches, Boxelder Bugs, Spiders, Silverfish, Firebrats, Chinch Bugs, Asian Lady Beetles*, Sowbugs, Glassy-Wing Sharpshooters, Stink Bugs, Bark Scorpions</p> <p>* Except in California</p> | <p>0.2–0.5 fl oz (1¹/₃–3 teaspoons) (6–15 ml)</p> | <p>.04–0.1 fl oz (1¹/₃–2²/₃ teaspoon) (1.2–3 ml)</p> | <p>Apply MAVRIK® PERIMETER to perimeters and outside surfaces of residential, non-commercial, and commercial buildings such as industrial offices, institutional buildings, private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, storage sheds, patios.</p> <p>Apply MAVRIK® PERIMETER using a low pressure, coarse fan spray, applied in even bands to surfaces and perimeters where pests are a problem. Apply the spray mixture at a volume equivalent to 5 gallons per 1,000 square feet. Depending on the severity of pest infestations, a re-treatment may be necessary at 7–14 days. Apply no more than 4 times per month or no more than 20 times per year. Typical re-treatment interval is 28 days.</p> <p>When using cold foggers or other ULV delivery systems for perimeter applications, apply the labeled amount of MAVRIK® PERIMETER over the square footage with the equipment manufacturer's requirement of water. Follow manufacturer's calibration procedures.</p> <p>Perimeter applications are made to a band of soil and/or vegetation 6 to 10 feet wide around and adjacent to the structure. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. These sites may include refuse dumps, vegetation areas, soil, trunks of woody ornamentals, and fence lines adjacent to or around the structure, and other areas near a structure where pests congregate or have been seen.</p> <p>Surface applications can be made to all outside surfaces of structures listed above and includes porches, window and door frames, eaves, and foundations. Apply as a crack and crevice treatment using a pinstream nozzle to pest harborage sites. Refrain from applying to the point of runoff.</p> |

**AMOUNT MAVRIK® PERIMETER
IN WATER TO MAKE**

| SITE | PEST | 5 GALLONS | 1 GALLON | SPECIFIC DIRECTIONS |
|---|---|---|--|---|
| Woody and Herbaceous Ornamentals—Outdoors | Aphids, Thrips, Mites, Clover Mites, Whiteflies, Leaf-Feeding Caterpillars (i.e., Tent, Orlando, Gypsy Moth, Bagworm, Canker Worm, etc.), Lygus Plant Bugs, Beetles (Flea, Cucumber, Elm Leaf), Leafhoppers, Earwigs, Ants, Crickets, Armyworms, Cutworms, Sowbugs, Chiggers*, Millipedes*, Springtails (Collembola), Adelgids, Mosquitoes, Glassy-Wing Sharpshooters, Stink Bugs, Bark Scorpions, Strawberry Root Weevils*, Obscure Root Weevils*, Blackvine Root Weevils* | 0.2–0.5 fl oz (1 ¹ / ₃ –3 teaspoons) | .04–0.1 fl oz (1.2–3 ml) (1 ¹ / ₃ –2 ² / ₃ teaspoon) | Make applications to large, mature ornamental specimen plants or plants in containers larger than 5 gallons in size. Mix 0.2–0.5 fl oz or 1 1/3–3 teaspoons of MAVRIK® PERIMETER in 5 gallons of water. Apply 5 gallons of spray solution per equivalent of 1,000 square feet of growing area using a low pressure, coarse fan spray application. Spray interval is typically 14–28 days but not more than 4 applications per month. Do not exceed 24 applications per year. Use sufficient water to thoroughly cover the surfaces to be treated. Use lower rates for light to moderate insect pressure. Spray on ground around base of tree or shrub and/or up main trunk or stem and foliage. |
| Eugenia and Pepper Tree | Psyllids | 0.25–0.5 fl oz (1 ¹ / ₂ –3 teaspoons) | 0.5–0.1 fl oz (1 ¹ / ₃ –2 ² / ₃ teaspoon) | Apply 0.25-0.5 fl oz (1 ¹ / ₂ –3 teaspoons of MAVRIK® PERIMETER per 5 gallons of water to protect new foliage, depending on pest pressure. Use the higher rate of MAVRIK® PERIMETER for heavier infestations of psyllids. Apply 2 applications at 14 day intervals under heavy reinfestation pressure or if new foliage is present. If pruning is needed, prune the entire hedge, then delay application until adults and new shoots are present. |
| Ant Mound Treatment | Fire Ants and other mounding ant pests | 0.5 fl oz (15 ml) (3 teaspoons) | 0.1 fl oz (3 ml) (2 ² / ₃ teaspoon) | Individual ant mound treatment: Apply as drench using 1 gallon of spray solution per mound to control mounding ant colonies, including the fire ant. Thoroughly mix 2 ² / ₃ teaspoon (0.1 fl oz/3 ml) of MAVRIK® PERIMETER with 1 gallon of water. Drench the mound using 1 gallon of dilution per mound. Apply the dilution starting on the perimeter of the mound and ending at the center of the mound until the entire mound is wet but not to the point of runoff. |

* Except in California

To the extent consistent with applicable law, Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. To the extent consistent with applicable law, Buyer assumes all risk of use and handling of this material when such use and handling are contrary to label instructions.

For more information or in case of emergency, call **1-800-248-7763. www.zoecon.com**

Wellmark International
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Schaumburg, Illinois 60173



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Schaumburg, IL

SECTION 1: Identification**1.1. Identification**

Product form : Mixture
 Trade name : Mavrik Perimeter
 Synonyms : 38070A, EPA Reg. No.: 2724-478

1.2. Recommended use and restrictions on use

Recommended use : Insecticide/miticide.
 Restrictions on use : Avoid contact with eyes, skin and clothing. Avoid release to the environment. Do not inhale. Keep out of reach of children.

1.3. Supplier

Wellmark International
 1501 E. Woodfield Road, Suite 200W
 Schaumburg, IL 60173 - United States
 www.zoecon.com

1.4. Emergency telephone number

Emergency number : 1-800-248-7763
 1-800-424-9300 - CHEMTREC
 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS-US classification**

| | |
|---|---|
| Serious eye damage/eye irritation Category 2A | Causes serious eye irritation |
| Acute toxicity (Inhalation) Category 3 | Toxic if inhaled |
| Specific target organ toxicity (repeated exposure) Category 2 | May cause damage to organs through prolonged or repeated exposure |

2.2. GHS Label elements, including precautionary statements**GHS-US labeling**

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

⚠ Danger

Hazard statements (GHS-US) :

⚠ Causes serious eye irritation
 ⚠ Toxic if inhaled
 ⚠ May cause damage to organs (skin) through prolonged or repeated exposure

Precautionary statements (GHS-US) :

⚠ Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms and face thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If inhaled: Remove person to fresh air and keep comfortable for breathing
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Call a poison center or doctor
 Get medical advice/attention if you feel unwell.
 If eye irritation persists: Get medical advice/attention.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations

Mavrik Perimeter

Safety Data Sheet

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : This product is toxic to fish and aquatic organisms. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product Identifier | % |
|---|-----------------------|---------|
| Teu-fluvalinate | (CAS-No.) 102851-08-9 | 22.3 |
| Sodium alkylnaphthalenesulfonate, formaldehyde condensate | (CAS-No.) 36290-04-7 | 2.2 |
| Ethylene glycol | (CAS-No.) 107-21-1 | 8 |
| Other Ingredients | (CAS-No.) N/A | Balance |

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.
First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : 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 and attention.
First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Toxic if inhaled.
Symptoms/effects after skin contact : May cause damage to skin through prolonged or repeated exposure.
Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Do not allow fire fighting water to escape into waterways or sewers. Do not use direct stream of water. A direct stream of water may spread fire. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. Move containers away from the fire area if this can be done without risk.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.

Mavrik Perimeter

Safety Data Sheet

Emergency procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Do NOT wash away into sewer. Avoid release to the environment. Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

- Do not breathe fumes. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment. Read label before use. Wash hands immediately after handling the product.

Hygiene measures

- Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Ethylene glycol (107-21-1) | | |
|----------------------------|---------------------------------|---|
| ACGIH | ACGIH TWA (ppm) | 25 ppm (Vapor fraction) |
| ACGIH | ACGIH STEL (mg/m ³) | 10 mg/m ³ (Inhalable fraction, Aerosol only) |
| ACGIH | ACGIH STEL (ppm) | 50 ppm (Vapor fraction) |
| ACGIH | Remark (ACGIH) | Kidney dam; URT & eye irr |

8.2. Appropriate engineering controls

Appropriate engineering controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls

- Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemically resistant protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Respiratory protection:

Wear respiratory protection. In case of insufficient ventilation, use NIOSH approved respiratory protection. In case of insufficient ventilation, use NIOSH approved respiratory protection. Mixers loaders, applicators and other handlers: wear a NIOSH approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or R, P or HE filter.



Mavrik Perimeter

Safety Data Sheet

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------------|
| Physical state | : Liquid |
| Appearance | : Milky white liquid |
| Color | : Milky white |
| Odor | : Strong oil-like |
| Odor threshold | : No data available |
| pH | : 4.88 (25 °C)(77 °F) |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 1.09 |
| Solubility | : No data available |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 400 cP (20 °C)(68 °F) |
| Explosion limits | : No data available |
| Explosive properties | : Not explosive |
| Oxidizing properties | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Excessive heat > 110° F. Direct sunlight.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce toxic fumes/vapors which may include hydrogen cyanide, hydrogen chloride and hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Mavrik Perimeter | |
|----------------------------|---------------------|
| LD50 oral rat | 5150 mg/kg |
| LD50 dermal rabbit | > 2100 mg/kg |
| LC50 inhalation rat (mg/l) | 0.52 - 1.65 mg/l/4h |
| pH | 4.88 (25 °C)(77 °F) |

Mavrik Perimeter

Safety Data Sheet

| GHS-US Properties | Classification |
|--|--|
| Acute toxicity | Inhalation: Toxic if inhaled. |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | Not classified |
| Germ cells mutagen | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |
| Specific target organ toxicant (single exposure) | Not classified |
| Specific target organ toxicant (repeated exposure) | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not classified |

Potential health effects

Inhalation

Acute : Toxic if inhaled.

Skin

Acute : Under normal conditions of use, no health effects are expected.

Chronic : Repeated and prolonged exposure to tau-fluvalinate may cause skin lesions.

Eye

Acute : Causes serious eye irritation.

Ingestion

Acute : Under normal conditions of use, no health effects are expected.

Mutagenicity : Tau-fluvalinate has been tested and found negative for mutagenicity potential.

Carcinogenicity : Tau-fluvalinate is not listed as a carcinogen by OSHA, IARC, or NTP. No other component present at 0.1% or greater are listed by IARC, OSHA or NTP.

Reproductive Effects : Tau-fluvalinate has been tested and is not a reproductive toxin.

SECTION 12: Ecological information

12.1. Toxicity

| Tau-fluvalinate (102851-06-9) | |
|-------------------------------|--|
| LC50 Acute fish 1 | 0.00091 mg/l (Exposure time: 96h - Rainbow trout) |
| LC50 Acute fish 2 | 0.0012 mg/l (Exposure time: 96h - Blue gill) |
| LC50 Acute fish 3 | 0.0015 mg/l (Exposure time: 96h - Sheepshead minnow) |
| LC50 Acute crustacea 1 | 0.0000079 mg/l (Exposure time: 96h - Mysis shrimp) |
| EC50 Daphnia 1 | 0.00094 mg/l (Exposure time: 48h - Daphnia magna) |
| NOEC Chronic crustacea 1 | 0.0003 mg/l (Daphnia magna) |
| NOEC Chronic crustacea 2 | 0.000003 mg/l (Mysis shrimp) |

12.2. Persistence and degradability

| Tau-fluvalinate (102851-06-9) | |
|-------------------------------|---|
| Persistence and degradability | Tau-fluvalinate is expected to degrade rapidly under aerobic conditions but be persistent under anaerobic conditions. |

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

| Tau-fluvalinate (102851-06-9) | |
|-------------------------------|---|
| Mobility in soil | Tau-fluvalinate is expected to be highly immobile. Soil half life: 14.9 day |

12.5. Other adverse effects

| Mavrik Perimeter | |
|------------------|--|
| Ecological Fate | This product is toxic to fish and aquatic organisms. |

Mavrik Perimeter

Safety Data Sheet

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or International regulations

SECTION 14: Transport information

| | UN number | Proper Shipping Name | Transport hazard class(es) | Packing group | Environmental hazards |
|-------------|---------------|---|----------------------------|---------------|-------------------------------|
| DOT | Not regulated | Not regulated | Not regulated | Not regulated | Ethylene glycol RQ = 5,000 lb |
| IMDG | UN3082 | Packaging 5 L or greater: Environmentally Hazardous substance, Liquid, N.O.S. (Tau-fluvalinate) | 9 | III | Marine pollutant |
| IATA | UN2902 | Pesticide, liquid, toxic, n.o.s. (Tau-Fluvalinate) | 6.1 | III | Acute aquatic toxicity |

Other Information : DOT: The calculated 1-hour acute toxicity for inhalation LC50 = 2.08 mg/L, however it has been determined a mist or aerosol cannot be formed if there is leakage during transport, therefore the 6.1 classification does not apply

SECTION 15: Regulatory information

15.1. US Federal regulations

| | |
|--|---|
| Sodium alkylnaphthalenesulfonate, formaldehyde condensate (36290-04-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) Inventory | |
| EPA TSCA Regulatory Flag | XU - XU - Indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
| ethylene glycol (107-21-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) Inventory | |
| Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 5000 lb |
| SARA Section 313 - Emission Reporting | 1 % |
| FIFRA Labelling | |
| EPA Registration Number | 2724-478 |
| This chemical is a pesticide product registered by 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. The pesticide label also includes other important information, including directions for use. | |
| FIFRA Signal word | Caution |
| FIFRA Precautionary Statement | KEEP OUT OF REACH OF CHILDREN. |
| FIFRA Hazards to Humans and Domestic Animals | Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist or vapor. Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves (such as or made out of any waterproof material, selection category A). |
| FIFRA First Aid | 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 a 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 mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. 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 eyes. • Call a poison control center for treatment advice. |

Mavrik Perimeter

Safety Data Sheet

| | |
|-----------------------------|---|
| FIFRA Environmental Hazards | This product is toxic to fish and aquatic organisms. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not apply when weather conditions favor drift from the target area. This product is toxic to honey bees if bees are exposed to direct application. However, dried residues of this product are non-toxic to honey bees. Treat during non-foraging periods to minimize adverse effects. |
| FIFRA Physical Hazard | Do not use or store near heat or open flame |

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 25 November 2015
Revision date : 09 February 2018

Indication of changes:

Sec. 14: Updated transportation description.

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

