Fenpropathrin - MATERIAL SAFETY DATA SHEET

Manufacturer/information service:
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1. Chemical Product Identification
   Product Name: Fenpropathrin
   Molecular Formula: C_{22}H_{23}NO_{3}
   Molecular Weight: 269.8
   Structural Formula:
   ![Structural formula of Fenpropathrin]
   Chemical Name: alpha-cyano-3-phenoxybenzyl 2,2,3,3-tetramethyl cyclopropanecarboxylate
   Form: liquid
   Color: Yellow
   Odor: Aromatic
   CAS No.: 39515-41-8

2. Composition / Information On Ingredients

<table>
<thead>
<tr>
<th>Composition</th>
<th>CAS No.</th>
<th>Content %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fenpropathrin</td>
<td>39515-41-8</td>
<td>90.0</td>
</tr>
<tr>
<td>Other ingredients</td>
<td></td>
<td>10.0</td>
</tr>
</tbody>
</table>

3. Hazards Identification
   Danger: Corrosive, causes irreversible eye damage. May be fatal if swallowed. Harmful if
inhaled. Avoid inhaling fume or spray mist. Do not get in eyes, on skin or on clothing. Aspiration hazard, do not induce vomiting. Keep out of children.

4. First Aid Measures

**EYES:** Flush eyes immediately with fresh water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. Get medical attention.

**SKIN:** Wash with soap and water. Remove and wash contaminated clothing separately. Get medical attention if irritation persists.

**INGESTION:** If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Center. Promptly drink a large quantity of milk, egg whites or gelatin solution. If these are not available, drink large quantities of water. Avoid alcohol. Get medical attention immediately.

**INHALATION:** If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately.

5. Fire-Fighting Measures

**Flash Point:** 205°C

**Extinguishing Media:** CO₂, dry chemical, foam, water fog.

**Fire Fighting Instructions:** Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

6. Accidental Release Measures

**For Or Spills on Land:**

**Containment:** Avoid runoff into storm sewers and ditches which lead to waterways. Contained spilled liquids with dry sorbents.

**Cleanup:** Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

**For Spills In Water:**

**Containment:** This material forms an emulsion in water. Stop or reduce contamination of any water. Isolate contaminated water.

**Cleanup:** Remove contaminated water for treatment or disposal.

7. Handling And Storage

Do not use or store near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed.
Do not weld, heat or drill container. Replace cap or bung. Emptied container still contains hazardous or explosive vapor or liquid.

8. Exposure Controls/Personal Protection

Eye Protection: Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

Respiration/Ventilation: This material may be an inhalation hazard and, unless ventilation is adequate, the use of approved respiratory protection is recommended. Use this material only in well ventilated areas.

Skin Protection: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

9. Physical and Chemical Properties

Appearance: Reddish brown solid
Melting Point: 45-50 ℃
Boiling Point: 377 ℃
Specific Gravity: 1.103g/cm³ @ 20 ℃
Solubility: In water 0.33 ppm at 25 ℃, Easily soluble in common organic solvents. Xylene 100%, methanol 33.7%
Vapor Pressure: 7.3 x10⁻²Pa (20 ℃)
Octanol/Water Partition Ceффicient: Pow=1×10⁶
PH: 5 – 7

10. Stability and Reactivity

Chemical Stability: Stable.
Incompatibility: Avoid contact with alkaline materials.
Oxidation/Reduction Properties: N/A

11. Toxicological Information

Oral LD₅₀ for rats: 164 mg/kg
Dermal LD₅₀ for rats: 600mg/kg
Inhalation LC₅₀ for rats: >96mg/m³
Possibility of eye and skin irritation: slight irritating
Skin sensitization (Guinea): No irritating
12. Ecological and Ecotoxicological Information

No reproductive effects were observed in mallard ducks or bobwhite quail exposed to dietary levels of fenpropathrin technical. In mallard ducks, a NOEL was established at 125 ppm. In bobwhite quail, the NOEL was established at 25 ppm.

It is toxic to honeybees, and its toxicity to fish varies with the species, size of fish and the softness or hardness of the water.

13. Disposal Considerations

Disposal Methods: Check governmental regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.