1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product information**

**Trade name:** Magister

**Use of the Substance/Mixture:** Insecticide

**Information on manufacturer/Supplier**: E. I. DuPont India Pvt. Ltd.
7th Floor, Tower C, DLF Cyber Greens, Sector 25A, DLF City Phase III, Gurgaon - 122002, Haryana India

**Telephone:** +91-124-2540900
**Telefax:** +91-124-2540889 / 90 / 91 / 92
**Emergency telephone number:** +91-124-4092888 / +91-124-2353777

2. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** B11875503

**Components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fenazaquin</td>
<td>120928-09-8</td>
<td>10.21 %</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), heavy arom.; Kerosine</td>
<td>64742-94-5</td>
<td>81.79 %</td>
</tr>
<tr>
<td>- unspecified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Ingredients</td>
<td></td>
<td>8 %</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

**Risks**
Harmful if swallowed.
Irritating to skin.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety data**
Keep out of the reach of children.
Wear suitable gloves.
Use appropriate container to avoid environmental contamination.
This material and its container must be disposed of as hazardous waste.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
4. FIRST AID MEASURES

General advice: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary.

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

Eye contact: 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 a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Extinguishing media which shall not be used for safety reasons: High volume water jet, (contamination risk)

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.

Environmental precautions: Prevent material from entering sewers, waterways, or low areas.

Methods for clearing up: Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container.

If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
### 7. HANDLING AND STORAGE

**Handling**

- **Advice on safe handling**: Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

- **Advice on protection against fire and explosion**: Keep away from heat and sources of ignition.

**Storage**

- **Requirements for storage areas and containers**: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**

No information available.

**Engineering measures**

Ensure adequate ventilation.

**Personal protective equipment**

- **Respiratory protection**: Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

- **Hand protection**: Material: Protective gloves

- **Eye protection**: Wear protective eyewear to prevent contact with this substance.

- **Skin and body protection**: Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

- **Hygiene measures**: Do not breathe vapor or mist. Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

- **Protective measures**: 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. Use this product in accordance with its label.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
Colour : yellow
pH : no data available
Flash point : > 100 °C not applicable
Density : 1.004 g/cm³

10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid open flames and high temperatures.
Materials to avoid : Strong oxidizing agents, Acids and bases
Hazardous decomposition products : No information available.
Hazardous reactions : Polymerization will not occur. Stable at normal temperatures and storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD₅₀/rat : 410 - 511 mg/kg
Acute inhalation toxicity : LCₕ₀/4 h/rat : 2.7 mg/l
Acute dermal toxicity : LD₅₀/rabbit : > 5,000 mg/kg

Skin irritation • Fenazaquin : rabbit
Classification: Not classified as irritant Result: No skin irritation

Eye irritation • Fenazaquin : rabbit
Classification: Irritating to eyes. Result: irritating

Sensitisation : guinea pig Result: Animal test did not cause sensitization by skin contact.

Repeated dose toxicity • Fenazaquin : Oral multiple species No adverse effect has been observed in chronic toxicity tests.
Mutagenicity assessment
- Fenazaquin: Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment
- Fenazaquin: Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment
- Fenazaquin: Animal testing showed no reproductive toxicity.

Assessment teratogenicity
- Fenazaquin: Animal testing showed no developmental toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects
Toxicity to fish: LC50/Fish: < 1 mg/l

Toxicity to algae
- Fenazaquin: EC50/72 h/Pseudokirchneriella subcapitata (green algae): 8.9 mg/l
  EC50/96 h/Desmodesmus subspicatus (green algae): 9.9 mg/l

Aquatic toxicity: EC50/Daphnia magna (Water flea): < 1 mg/l

Further information on ecology
Additional ecological information: See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Product: In accordance with local and national regulations.
  Do not contaminate water, food or feed by disposal. Refer to the product label for instructions. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Contaminated packaging: Do not re-use empty containers.
14. TRANSPORT INFORMATION

**IMDG**
- UN number: 3082
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenazaquin)
- Class: 9
- Packing group: III
- Labelling No.: 9
- Marine pollutant: yes (Fenazaquin)

**IATA_C**
- UN number: 3082
- Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenazaquin)
- Class: 9
- Packing group: III
- Labelling No.: 9MI

**Hazchem Code:** .3Z

15. REGULATORY INFORMATION

**National regulatory information**
Product subject to regulatory requirements under the Insecticides Act, 1968 and Insecticides Rules, 1971

**Regulations in other countries**

- **Symbol(s):** Xn Harmful
  N Dangerous for the environment

- **Hazardous components:** Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified
  4-[2-[4-(1,1-dimethylethyl)phenyl]-ethoxy]quinazoline

- **R-phrase(s):**
  - R22 Harmful if swallowed.
  - R38 Irritating to skin.
  - R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **S-phrase(s):**
  - S2 Keep out of the reach of children.
  - S37 Wear suitable gloves.
  - S57 Use appropriate container to avoid environmental contamination.
  - S60 This material and its container must be disposed of as hazardous waste.
  - S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet:
1. The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through April, 2001
4. Insecticide Rule, 1971 (GSR 1650, Dt. 9-10-1971)

Department:
E. I. DuPont India Pvt. Ltd.
7th Floor, Tower C, DLF Cyber Greens, Sector 25A, DLF City Phase III, Gurgaon - 122002, Haryana India

Further information:
Before use read DuPont’s safety information. Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

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