



ARDENT 50 SC

R-10795

1. Identification of the substance/mixture and of the company/undertaking

Trade name : ARDENT 50 SC
Type of product : Fungicide
Chemical formula : Kresoxim methyl : C₁₈H₁₉NO₄
Chemical description : Kresoxim methyl : methyl (E)-methoxyimino-[2-o]-tolylloxymethyl]phenyl] acetate
Company identification : Makhteshim Chemical Works Ltd.
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2. Hazards identification

Human health hazards : Limited evidence of a carcinogenic effect.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

This product is considered to be hazardous and contains hazardous components.

| Substance name | Value(s) | CAS No | EC No | Index No | REACH Reg. | Classification |
|-----------------------|----------|-------------|-------|--------------|------------|--------------------------------|
| Kresoxim-methyl (ISO) | 500 g/l | 143390-89-0 | ----- | 607-310-00-0 | ----- | Carc. Cat. 3; R40 N; R50-53 |

4. First aid measures

First aid
Skin contact : Remove contaminated clothing and shoes.
Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Consult a doctor in the event of any complaints.
Eye contact : Rinse immediately with plenty of water.
Consult an eye specialist.
Inhalation : If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Remove victim to fresh air. Keep victim warm and at rest.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy. If ingested perform gastric lavage and administer activated charcoal.

5. Fire-fighting measures

Extinguishing media : For small fire : dry chemical , carbon dioxide .
For large fire : water spray , water fog , foam .
Special exposure hazards : Thermal decomposition may generate : carbon monoxide , carbon dioxide , nitrogen oxides .
Protection against fire : Wear proper protective equipment. Use self-contained breathing apparatus when in close proximity to fire.



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5. Fire-fighting measures (continued)

Special procedures : Fight fires from a protected location . Dike fire control water for later disposal.

6. Accidental release measures

Personal precautions : Use appropriate protection (see section 8).

Environmental precautions : Dispose of this material and its container at hazardous or special waste collection point If the product has contaminated surface water, inform the appropriate authorities.

After spillage and/or leakage : Cover with sand or other inert material. Collect spilled material with shovel, place into a clean container and cover container loosely . Dispose of this material and its container at hazardous or special waste collection point

7. Handling and storage

Handling : Do not breathe gas, fumes, vapour or spray. Avoid contact with skin and eyes.

Storage : Keep locked up Keep container tightly closed. Keep only in the original container in a cool, well ventilated place. Avoid temperatures above 50 °C .

8. Exposure controls/personal protection

Industrial hygiene : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower . Ventilation required. Wash clothing before re-using. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protection

- **Skin protection** : Wear suitable protective clothing

- **Hand protection** : Wear suitable gloves.

- **Eye protection** : Chemical goggles or safety glasses.

Occupational Exposure Limits : Not established

9. Physical and chemical properties

Physical state : Dense suspension
Colour : Off-white
Odour : Characteristic odour
pH value : 5 - 6
Molecular weight : 313.4
Melting point [°C] : 97 - 102 (Pure)
Density : 1.11 - 1.14 g/l
Vapour pressure : 2.3 µPa (20°C)
Solubility in water : 2 mg/l
Flash point [°C] : Not applicable
Explosion limits : Not explosive



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9. Physical and chemical properties (continued)

10. Stability and reactivity

- Physico-chemical stability** : Stable under normal dry conditions.
Hazardous decomposition products : Thermal decomposition may generate : carbon monoxide , carbon dioxide , nitrogen oxides .
Hazardous reactions : Avoid contact with : strong bases , oxidizing agents .
Hazardous Polymerization : Will not occur.
Conditions to avoid : Protect from sunlight , open flame , sources of heat . Decomposes upon heating.

11. Toxicological information

- Oral, Rat LD50 [mg/kg]** : > 2000
Dermal, Rat LD50 [mg/kg] : > 2000
Rat inhalation LC50 [mg/kg] : Not applicable
Inhalation, Rat LC50 [mg/l/4h] : Kresoxim methyl Technical: > 5.6
Skin corrosion/ irritation : Not irritant
Serious eye damage/ irritation : Not irritant
Respiratory or skin sensitization : Guinea pig maximization test: Non sensitizer
Carcinogenicity : Carc. Cat. 3: Limited evidence of a carcinogenic effect.
Germ cell mutagenicity : Not mutagenic
Reproductive toxicity : Not considered to be toxic for the reproductive system.

12. Ecological information

- 96 H-LC50 - Rainbow trout [mg/l]** : 0.6
96 H-LC50 - Carp [mg/l] : 1.15
48 H-LC50-Daphnia magna [mg/l] : 0.2
72 H-EC50 - Algae [mg/l] : 0.23
LD50 - Japanese quail [mg/kg] : > 2000
Bees LD50 [µg/Bee] : >100 (oral , contact)

13. Disposal considerations

- Disposal** : Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

- **UN No.** : 3082
- **Proper shipping name** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (500 g/l Kresoxim-methyl)
- **Packing group** : III

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14. Transport information (continued)

- Class : 9
- H.I. nr : 90
- IMDG-Marine pollution : YES

15. Regulatory information

EU Classification : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations :

Symbol(s)



: Xn: Harmful.
N: Dangerous for the environment.

R Phrase(s)

: R40 - Limited evidence of a carcinogenic effect.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s)

: S36/37 - Wear suitable protective clothing and gloves.
S57 - Use appropriate container to avoid environmental contamination.
S60 - This material and its container must be disposed of as hazardous waste.

16. Other information

List of full text of R-phrases in section 3. : *R40 - Limited evidence of a carcinogenic effect.*
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information : None.

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