

MCW 8732 (EW)
R-26535
SECTION 1. Identification of the substance/mixture and of the company/undertaking

Trade name : MCW 8732 (EW)
CAS number : 71751-41-2
Common name of active ingredients : Abamectin
Chemical formula : Abamectin : C₄₈H₇₂O₁₄; C₄₇H₇₀O₁₄
Relevant identified uses : Insecticide / Acaricide
Company identification : Makhteshim Chemical Works Ltd.
 PO Box 60
 Beer Sheva 84100 Israel.
 Fax : +972-8-6296848
Phone nr : 972-3-6106666 Subscription no. 36789 (Makhteshim)

SECTION 2. Hazards identification

Human health hazards : Harmful if swallowed.
 Risk of serious damage to eyes.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. Composition/information on ingredients

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

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Abamectin	18 g/l	71751-41-2	-----	-----	----	Xn; R63 T+; R26/28 T; R48/23/25 N; R50-53
Acetophenone	< 20 %	98-86-2	202-708-7	606-042-00-1	----	Xn; R22 Xi; R36
1,2-Benzisothiazol-3(2H)-one	< 0.5 %	2634-33-5	220-120-9	613-088-00-6	----	Xn; R22 Xi; R38-41 R43 N; R50

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Skin contact : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Seek medical attention if ill effect develops.
Eye contact : Wash off with plenty of water . Immediately consult an eye specialist.
Ingestion : Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Give water to drink . Immediately consult a doctor .
Note to physician : No antidotes known. Treat symptomatically.

SECTION 5. Fire-fighting measures

Suitable extinguishing media : Water spray , carbon dioxide , foam , sand .
Specific hazards : Thermal decomposition may generate : Carbon dioxide , carbon monoxide , smoke .
Protection against fire : Use self-contained breathing apparatus when in close proximity to fire.
 Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Dike fire control water for later disposal.

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SECTION 6. Accidental release measures

- For emergency responders** : Use appropriate protection (see section 8).
- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
- Clean up methods** : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

SECTION 7. Handling and storage

- Handling** : Use only in well ventilated areas. Keep out of the reach of children . Keep away from food, drink and animal feedingstuffs .
- Storage** : Store in dry, cool, well-ventilated area. Keep container tightly closed. Protect from freezing. Avoid temperatures above 50 °C .
- Packing** : Coextruded or fluorinated polyethylene containers

SECTION 8. Exposure controls/personal protection

Control parameters

Exposure controls

: Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash clothing before re-using.

Personal protection

- **Hand protection** : Wear suitable gloves.
- **Skin protection** : Wear suitable protective clothing and gloves .
- **Eye protection** : Chemical goggles or face shield.
- **Others** : When using, do not eat, drink or smoke.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

- Appearance**
- Physical state at 20 °C** : Liquid
- Colour** : White , Non- Transparent
- Odour** : Organic.
- pH value** : 1% : 6 - 8
- Freezing point [°C]** : Not available
- Melting point [°C]** : Not available
- Boiling point [°C]** : Not available
- Flash point [°C]** : > 95
- Flammability** : Not flammable (water based formulation)
- Vapour pressure [20°C]** : Abamectin : < 3.7 x 10(-6) mPa (25 °C)
- Relative density** : 1.00 - 1.06
- Solubility** : Emulsifiable
- Log P octanol / water at 20°C** : Abamectin : 4.4
- Auto-ignition temperature [°C]** : 430
- Decomposition point [°C]** : Not available
- Viscosity** : 20°C : 864 - 187.1 mPa.s {shear rate 5-100 s(-1)}
40°C : 687.4 - 123.5 mPa.s {shear rate 5-100 s(-1)}
- Surface tension mN/m** : 28.0 (25 °C)

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SECTION 9. Physical and chemical properties (continued)

Explosive Properties : Not explosive
Oxidising properties : Not oxidizing

SECTION 10. Stability and reactivity

Hazardous decomposition products : Thermal decomposition may generate :
carbon monoxide , carbon dioxide , smoke .
Hazardous polymerization : Will not occur.
Conditions to avoid : Direct sunlight , heat , open flame .

SECTION 11. Toxicological information

Toxicity information : For a similar formulation containing 18 g/l Abamectin:
- Rat oral LD50 [mg/kg] : MCW 8732 (EW) : 1000
- Dermal, Rat LD50 [mg/kg] : > 2000
- Rat inhalation LC50 [mg/l/4h] : > 5
Dermal irritation (rabbit) : Not irritant
Eyes irritation (rabbit) : Xi : Irritant
Sensitization : Non sensitizer
Mutagenicity : Abamectin : Not mutagenic
Carcinogenicity : Abamectin : Not carcinogenic
Acute toxicity
Toxic for reproduction : Fertility : Abamectin : Reproductive toxin in animal studies only at maternal acutely toxic doses.

SECTION 12. Ecological information

Based on data of a similar product:

96 H-LC50 - Rainbow trout [$\mu\text{g/l}$] : 154
48 H-EC50 - Daphnia magna [$\mu\text{g/l}$] : 38
72 H-EC50 - Algae [mg/l] : 41.7
LD50 Birds [mg/kg] : Abamectin : ≤ 77
Bees LD50 [$\mu\text{g/bee}$] : Abamectin : Toxic to bees
Persistence - degradability : Soil : Not readily biodegradable.
Mobility : Low mobility ; KOC = 1495-7893 mg/l

SECTION 13. Disposal considerations

General : Avoid release to the environment.
Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

UN N° : 3082
- IMO-IMDG - class or division : 9
- IMDG-Marine pollution : Marine pollutant - Polluant marin

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SECTION 15. Regulatory information

EU Classification : This product is provisionally labelled by the supplier in accordance to the EU regulations:

Symbol(s)



R Phrase(s)

: Xn : Xn : Harmful.
N : N : Dangerous for the environment.
: R22 - Harmful if swallowed.
R41 - Risk of serious damage to eyes.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s)

: S02 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using, do not eat, drink or smoke.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 - Wear eye/face protection.
S57 - Use appropriate container to avoid environmental contamination.
S60 - This material and its container must be disposed of as hazardous waste.

SECTION 16. Other information

List of relevant R phrases (heading 3) : R22 - Harmful if swallowed.
R26/28 - Very toxic by inhalation and if swallowed.
R36 - Irritating to eyes.
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R43 - May cause sensitization by skin contact.
R48/23/25 - Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R50 - Very toxic to aquatic organisms.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 - Possible risk of harm to the unborn child.

List of relevant H phrases (Section 3) : H300 - Fatal if swallowed.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H330 - Fatal if inhaled.
H372 - Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

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