

MATERIAL SAFETY DATA SHEET

ABAMECTIN 18 EC

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Name: ABAMECTIN 18g/L Emulsifiable Concentrate

Product Code: None

Chemical Abstracts name:

5-O-demethylavermectin A1a (i) mixture with 5-O-demethyl-25-de(1-methylpropyl)- 25-(1-methylethyl)avermectin A1a (ii)

Chemical Formula of Active Ingredient:

Avermectin B1a: C₄₈H₇₂O₁₄ (i)

Avermectin B1b: C₄₇H₇₀O₁₄ (ii)

CAS Registry Number of Active Ingredient:

Avermectin B1a 65195-55-3,

Avermectin B1b 65195-56-4

Product Use: Agriculture Insecticide/Acaricide

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SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	EEC No.	Symbol R	Phrase	Content %
Abamectin	65195-55-3 65195-56-4	265-610-3 265-611-9	T+	26/28	(w/w) 1.8%
n-Hexanon	111-27-3	203-852-3	Xn	22 36/38	50-60%
N-ethylpyrrolidone	2687-91-4	220-250-6	Xn	22-36	

SECTION 3. HAZARDS IDENTIFICATION

Harmful if swallowed. Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

SECTION 4. FIRST AID MEASURES

Eye Contact	Flush with running water for at least 15 minutes while holding eyelids open to help flush out material. Do not contaminate the other eye. Get medical attention.
Skin Contact	Remove contaminated clothing and shoes immediately. Wash thoroughly with soap and water. Get medical attention.
Inhalation	Move to the fresh air. Give artificial respiration if necessary. Immediately get medical attention.
Ingestion	Rinse mouth with water. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.

SECTION 5. FIRE FIGHTING MEASURES

Firefighting Media	: Water spray, carbon dioxide and powder.
Firefighting Precaution	: In the event of fire, wear self-contained breathing apparatus.
Additional information:	: Do not use water jet. In fire it is combustible and will release harmful smoke. Do not flush into surface water or sanitary sewer

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system or the rivers and collect to proper containers. Cool the closed containers near the source of fire by water spraying.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment.
Methods for cleaning up : Collect up promptly by absorbing material, like sand, soil, kieselgur, vermiculite, and then shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Harmful if swallowed. Avoid getting in eyes, on skin or clothing. Remove contaminated clothing immediately. Wash thoroughly after handling.
Storage Precautions: Do not use or store near heat or open flame. Store in the original closed container and in cool, dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ensure good ventilation in confined space.
Eye/Face: To protect against accidental eye contact, goggles/face-shield should be worn.
Hand Protection: Rubber gloves should be worn.
Skin Protection: wear suitable protective clothing (coveralls), Suitable protective gloves and face protection (face shield) when handling the concentrate.
Respiratory Protection: Ensure good ventilation and wear half-mask with adequate filter.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Yellowish liquid
Odor : Characteristic odor
Density : 0.966g/ml (25°C)
Flash point : 76.5°C
pH : 3.66
Water Solubility : Miscible
Flammability : Not flammable
Oxidizing Potential : Not an oxidant

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SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under the normal handling and storage conditions.
Incompatibilities:	Avoid mixed with strong acids and alkalis.
Hazard Decomposition:	Thermal decomposition may emit toxic fumes and irritating vapors.
Hazard Polymerization:	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	: LD ₅₀ for rats >303 mg/kg
Acute Dermal Toxicity	: LD ₅₀ for rabbits >2020 mg/kg
Acute Inhalation Toxicity	: LC ₅₀ (4 h) for rats >2.29 mg/l
Skin Irritation	: Moderately irritating
Eye Irritation	: Severely irritating
Skin sensitization	: May cause sensitization by skin contact.

SECTION 12. ECOLOGICAL INFORMATION

Bioaccumulation	: No bioaccumulation.
Stability in water	: Biodegradable in water.
Stability in soil	: Biodegradable in soil.
Ecotoxicity effects	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Algae	: for green algae, EC ₅₀ (96h) = 13.12mg/L (based on formulated material).
Bird	: LD ₅₀ > 2000mg/kg for Japanese quail (based on formulated material).
Fish	: LC ₅₀ (96h) = 5.31 mg/L for Zebra fish (based on formulated Material).
Daphnia	: EC ₅₀ (48h) = 6.30µg/L for <i>Daphnia similes</i> (based on formulated material).
Earthworm	: LC ₅₀ (14day) = 2332.61mg/kg (based on formulated material).
Honeybee	: LD ₅₀ (48h) = 0.35µg/bee (based on formulated material).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of product would be treated, stored, transported, and disposed of according to the local waste regulation. Do not flush to surface water or sanitary sewer system.

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SECTION 14. TRANSPORT INFORMATION

IATA Classification

Shipping Name	: Environmentally hazardous substance, liquid, N.O.S.
Class	: 9
UN No.	: 3082
Packaging Group	: III
IMO Classification	
Shipping Name	: Environmentally hazardous substance, liquid, N.O.S.
Class	: 9
UN No.	: 3082
Packaging Group	: III
Marine Pollutant	
ADR Classification	: Shipping Name: Environmentally hazardous substance, liquid, N.O.S.
Class	: 9
UN No.	: 3082
Packaging Group	: III

SECTION 15. REGULATORY INFORMATION

European/International Regulation:

Hazard Symbols:	N Dangerous for the environment Xn Harmful
Risk Phrases:	- R22: Harmful if swallowed - R36: Irritating to eyes - R50/53: Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment

Safety Phrases:	- S2: Keep out of the reach of children. - S13: Keep away from food, drink and animal feedstuffs. - S20/21: When using, do not drink, eat or smoke. - S 35: This material and its container must be disposed of in a safe way - S57: Use appropriate containment to avoid environmental contamination.
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SECTION 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 in 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 produces formulations(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

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