

SAFETY DATA SHEET

Abamectin 18 EW

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 INS00020-E

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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Abamectin 18 EW

Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Insecticide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA Makhteshim Ltd

PO Box 60

Beer Sheva 8410001 Israel

For further information, please contact

Email address SDS@ADAMA.COM

Emergency Telephone

Emergency Telephone +972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302) Specific target organ toxicity (repeated Category 2 - (H373)

exposure)

Acute aquatic toxicity Category 1 - (H400) Chronic aquatic toxicity Category 1 - (H410)

Label Elements

Hazard pictograms

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Signal word Warning

Hazard Statements H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P270 - Do not eat, drink or smoke when using this product

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	Weight-%	CAS No
Abamectin (combination of avermectin B1a and avermectin B1b) (ISO	1.5-2.0	71751-41-2
Acetophenone	12-14	98-86-2
Methanol	0.1-0.3	67-56-1

Section 4: FIRST AID MEASURES

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

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Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Acetophenone 98-86-2				TWA: 10 ppm TWA: 50 mg/m ³	
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m³ Skin	STEL: 250 ppm STEL: 333 mg/m³ TWA: 200 ppm TWA: 266 mg/m³ Skin	TWA: 200 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1300 mg/m³	S* TWA: 200 ppm TWA: 266 mg/m³	TWA: 200 ppm TWA: 270 mg/m³ Ceiling / Peak: 800 ppm Ceiling / Peak: 1080 mg/m³ Skin
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Acetophenone 98-86-2		TWA: 10 ppm		TWA: 5 ppm TWA: 25 mg/m ³	TWA: 10 ppm TWA: 49 mg/m ³
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m³ Skin	STEL: 250 ppm TWA: 200 ppm	Skin TWA: 133 mg/m³ TWA: 100 ppm	TWA: 200 ppm TWA: 270 mg/m³ STEL: 250 ppm STEL: 330 mg/m³ Skin	TWA: 200 ppm TWA: 260 mg/m³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Acetophenone 98-86-2			STEL: 100 mg/m ³ TWA: 50 mg/m ³		TWA: 10 ppm TWA: 49 mg/m ³
Methanol 67-56-1	Skin STEL 800 ppm STEL 1040 mg/m³ TWA: 200 ppm TWA: 260 mg/m³	Skin STEL: 800 ppm STEL: 1040 mg/m³ TWA: 200 ppm TWA: 260 mg/m³	STEL: 300 mg/m³ TWA: 100 mg/m³ Skin	TWA: 100 ppm TWA: 130 mg/m³ Skin STEL: 150 ppm STEL: 162.5 mg/m³	TWA: 200 ppm TWA: 260 mg/m³ Skin

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand Protection Gloves made of plastic or rubber.

Body Protection Suitable protective clothing.

Respiratory protection Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<u>Property</u> <u>Values</u> <u>Method</u> <u>Remarks</u>

Appearance
Physical state : Liquid
Color : opaque white
Odor : Organic

Odor threshold : No data available

pH : 6-8 CIPAC MT 75.3 aqueous solution 1 %

Melting point/freezing point °C : No data available Boiling point/boiling range °C : No data available

Flash point °C : > 95 EEC A.9 Not flammable

Evaporation rate : Not Applicable
Flammability (solid, gas) : Not Applicable
Upper/lower flammability or : No data available

explosive limits

Vapor pressurekPa: No data availableVapor density: No data available

Relative density : 1.00-1.06 OECD 109

Solubility(ies) mg/l : No data available

Partition Coefficient : See Section 12 for more

(n-octanol/water) Log Pow information

Autoignition temperature °C : 430 92/69/EEC A.15

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C : 119.9 - 667.4 OECD 114; CIPAC MT 192

Explosive properties : Not an explosive 92/69/EEC A.14

Oxidizing properties : Not oxidizing EEC A.17

Other Information

Bulk density g/ml :
Surface tension mN/m : 28.0 OECD 115; EEC A.5

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Remarks

Acute toxicity

Values **Species** Method **OECD 423** Oral LD50 mg/kg 1000 Rat Dermal LD50 mg/kg Inhalation LC50 mg/l/4h >2000 Rat **OECD 402** >5.4 Rat **OECD 403** Skin corrosion/irritation : Non-irritating to the skin Rabbit **OECD 404** Serious eye damage/eye irritation : Not irritating to eyes Rabbit **OECD 405** Respiratory/skin sensitization : Not a skin sensitizer **OECD 406** Guinea pig

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Abamectin (combination of avermectin: Not classified

B1a and avermectin B1b) (ISO

Carcinogenicity

Chemical Name

Abamectin (combination of avermectin: Not classified

B1a and avermectin B1b) (ISO

Reproductive toxicity .

Chemical Name

Abamectin (combination of avermectin: H361d - Suspected of damaging the unborn child

B1a and avermectin B1b) (ISO

STOT - single exposure

Chemical Name

Abamectin (combination of avermectin B1a: Not available

and avermectin B1b) (ISO

STOT - repeated exposure

Aspiration hazard

Chemical Name

Abamectin (combination of avermectin: Not available

B1a and avermectin B1b) (ISO

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity	<u>values</u>	Species	<u>Metnod</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: 0.154	Rainbow trout	OECD 203	semi-static
Crustacea 48-hour EC50 mg/l	: 0.038	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 41.7	D. Subspicatus	OECD 201	
Other plants EC50 mg/l	:	•	OECD 221	Not available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical Name

Abamectin (combination of avermectin: <77 Mallard duck

B1a and avermectin B1b) (ISO

Bees Oral LD50 µg/bee

Chemical Name

Abamectin (combination of avermectin: 0.0022 contact

B1a and avermectin B1b) (ISO

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Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

Water DT50 days Chemical Name

Abamectin (combination of avermectin: 2.4

B1a and avermectin B1b) (ISO

Soil DT50 days Chemical Name

Abamectin (combination of avermectin: 28.7

B1a and avermectin B1b) (ISO

Biodegradation Chemical Name

Abamectin (combination of avermectin: Not readily biodegradable

B1a and avermectin B1b) (ISO

Bioaccumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

Abamectin (combination of avermectin: 4.4

B1a and avermectin B1b) (ISO

Bioconcentration factor (BCF)

Chemical Name

Abamectin (combination of avermectin: 69

B1a and avermectin B1b) (ISO

Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical Name

Abamectin (combination of avermectin: 5638 Koc

B1a and avermectin B1b) (ISO

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

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IMDG/IMO

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)

Hazard Class 9
Packing Group III
Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user Transport in bulk according to

Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 16: OTHER INFORMATION

Revision Note Changes made to the last version are labeled with this sign ***.

List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EC Number - EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

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LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet