according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name ASTERIA ULTRA 1.8 EC

Other means of identification

Product code 50002985

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

Use of the Sub-: Can be used as insecticide only.

stance/Mixture

Recommended restrictions : Use as recommended by the label.

on use

1.3 Manufacturer or supplier's details

FMC Chemicals Hellas MEPE Supplier Address

> Syngrou Avenue 348 17674 Kallithea

Greece

Telephone: +30 211 1982768 Telefax: +30 211 1138614

E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:

Greece: 30-2111768478 (CHEMTREC)

Medical emergency: Greece: 30 210 77 93 777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Acute toxicity, Category 4 H332: Harmful if inhaled.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Acute toxicity, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - repeated H373: May cause damage to organs through pro-

longed or repeated exposure. exposure, Category 2

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Short-term (acute) aquatic hazard, Cate-H400: Very toxic to aquatic life.

gory 1

Long-term (chronic) aquatic hazard, Cat-H410: Very toxic to aquatic life with long lasting egory 1 effects.

2.2 Label elements

Hazard pictograms

Labelling (REGULATION (EC) No 1272/2008)

Signal word Warning

Hazard statements H302 Harmful if swallowed.

> Causes serious eye irritation. H319

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or

repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH401 To avoid risks to human health and the

environment, comply with the instructions for use.

P102 Keep out of reach of children. Precautionary statements

P405 Store locked up.

P260 Do not breathe dust or mist.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/

doctor if you feel unwell.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Hazardous components which must be listed on the label:

cyclohexanol Abamectin

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Additional Labelling

For special phrases (SP) and safety intervals, consult the label.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
cyclohexanol	108-93-0 203-630-6 603-009-00-3	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 STOT SE 3; H335 (Respiratory system)	30 - 40
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	1 - 5
Abamectin	71751-41-2 606-143-00-0	Acute Tox. 2; H300 Acute Tox. 1; H330 Repr. 2; H361d STOT RE 1; H372 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	1,8

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			M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	
			specific concentration limit STOT RE 1; H372 >= 5 % STOT RE 2; H373 0,5 - < 5 %	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Call a physician or poison control centre immediately.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Avoid inhalation, ingestion and contact with skin and eyes. If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If swallowed : Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Harmful if swallowed.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated

exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod: :

ucts

Hazardous decomposition products due to incomplete com-

bustion

Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not touch or walk through the spilled material.

If it can be safely done, stop the leak. Use personal protective equipment.

Never return spills in original containers for re-use. Only qualified personnel equipped with suitable protective

equipment may intervene.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

For disposal considerations see section 13.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Collect as much of the spill as possible with a suitable absor-

bent material.

Pick up and transfer to properly labelled containers.

Clean contaminated surface thoroughly.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not

eat or drink. When using do not smoke. Wash hands before

breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety stand-

ards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label

approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
cyclohexanol	108-93-0	TWA	50 ppm	GR OEL

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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			200 mg/m3	
	Further information: The notation 'skin' (D), pointing out certain chemical factors of the table of paragraph of 1 article 3, implies the likely contribution to of these chemical factors to the quantity of exposure to workers which are absorbed through the skin at the direct contact with these.			
2,6-di-tert-butyl-p- cresol	128-37-0	TWA	10 mg/m3	GR OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-di-tert-butyl-p- cresol	Workers	Inhalation	Long-term systemic effects	3,5 mg/m3
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,86 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,250 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment Value	
2,6-di-tert-butyl-p-cresol	Fresh water	199 ng/l
	Marine water	19,9 ng/l
	Fresh water sediment	0,0996 mg/kg dry weight (d.w.)
	Marine sediment	0,00996 mg/kg dry weight (d.w.)
	Soil	0,04769 mg/kg dry weight (d.w.)
	Intermittent use (freshwater)	1,99 µg/l
	Sewage treatment plant	170 µg/l
	Oral	8,33 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields

Ensure that eyewash stations and safety showers are close

to the workstation location.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Skin and body protection : Impervious clothing

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Protective measures : Plan first aid action before beginning work with this product.

Wear suitable protective equipment.

Ensure that eye flushing systems and safety showers are

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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located close to the working place.

Always have on hand a first-aid kit, together with proper in-

structions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

liquid Physical state

No data available Form

Colour vellow

Odour characteristic Odour Threshold No data available Melting point/freezing point No data available

No data available No data available

No data available

Upper explosion limit / Upper

flammability limit

Lower explosion limit / Lower

flammability limit

Flash point No data available

Auto-ignition temperature 309 °C

Method: Regulation (EC) No. 440/2008, Annex, A.15

No data available Decomposition temperature

5,95 (25 °C)Method: CIPAC MT 75.3 рH

4,05 (25 °C)

Concentration: 1 % Method: CIPAC MT 75.3

Viscosity

Viscosity, dynamic 0,12 Pas (20 °C)

Method: OECD Test Guideline 114

Viscosity, kinematic

Solubility(ies)

No data available

Water solubility : No data available Solubility in other solvents : No data available Partition coefficient: n-No data available

octanol/water

Vapour pressure No data available Density No data available **Bulk density** No data available Relative vapour density No data available

9.2 Other information

Explosives

Method: Directive 67/548/EEC, Annex V, A.14

Not explosive

Oxidizing properties

Method: Regulation (EC) No. 440/2008, Annex, A.21 The substance or mixture is not classified as oxidizing.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed. Harmful if inhaled.

Product:

Acute oral toxicity : LD50 (Rat): 671,4 mg/kg

Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): 1,4125 mg/l

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Components:

2,6-di-tert-butyl-p-cresol:

Acute oral toxicity : LD50 (Rat, male and female): > 6.000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Mouse, male): 0,546 mg/l

Exposure time: 30 min
Test atmosphere: vapour
Remarks: no mortality

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

Remarks: no mortality

Abamectin:

Acute oral toxicity : LD50 (Rat): 340 mg/kg

Method: OECD Test Guideline 425

Symptoms: Fatality

LD50 (Rat): 300 - 2.000 mg/kg Method: OECD Test Guideline 423

Symptoms: ataxia, apathy, Tremors, Fatality

Acute inhalation toxicity : LC50 (Rat, male): 0,052 - 0,54 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

2,6-di-tert-butyl-p-cresol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Abamectin:

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 404
Result : slight or no skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Severe eye irritation

Components:

2,6-di-tert-butyl-p-cresol:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

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Abamectin:

Species : Rabbit

Assessment : Not classified as irritant
Method : OECD Test Guideline 405
Result : Slight or no eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Remarks : Not classified

Components:

2,6-di-tert-butyl-p-cresol:

Test Type : Patch test Species : Humans

Result : Does not cause skin sensitisation.

Abamectin:

Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)

Application Route: Intraperitoneal injection

Result: negative

Test Type: chromosome aberration assay

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Species: Rat (male) Application Route: Oral

Result: negative

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Abamectin:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test

Species: mice Result: negative GLP: yes

Germ cell mutagenicity- As-

sessment

No genotoxic potential

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

2,6-di-tert-butyl-p-cresol:

Species : Rat, male
Application Route : Oral
Exposure time : 22 months

Dose : 0, 25, 100, 250 mg/kg bw/day

100 mg/kg bw/day

Result : negative

Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a car-

cinogen

Abamectin:

Method : OECD Test Guideline 451

Remarks : Not classified

Method : OECD Test Guideline 453

Remarks : Not classified

Carcinogenicity - Assess-

ment

Weight of evidence does not support classification as a car-

cinogen

Reproductive toxicity

Based on available data, the classification criteria are not met.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Components:

2,6-di-tert-butyl-p-cresol:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Dose: 0, 25, 100, 500mg/kg/bw/day

General Toxicity - Parent: NOAEL: 500 mg/kg bw/day

General Toxicity F1: LOAEL: 25 mg/kg bw/day

Result: negative

Effects on foetal develop-

ment

Test Type: Two-generation study

Species: Rat

Application Route: Oral

Dose: 25, 100, 500mg/kg/bw/day

General Toxicity Maternal: LOAEL: 500 mg/kg bw/day Developmental Toxicity: LOAEL: 500 mg/kg bw/day

Result: negative

Test Type: Developmental Toxicity Screening Test

Species: Mouse Application Route: Oral

General Toxicity Maternal: LOAEL: 800 mg/kg bw/day Developmental Toxicity: LOAEL: 800 mg/kg bw/day

Result: negative

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

Abamectin:

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and

fertility, and/or on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

2,6-di-tert-butyl-p-cresol:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Abamectin:

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Repeated dose toxicity

Components:

2,6-di-tert-butyl-p-cresol:

Species : Pig, male and female NOAEL : >= 61 mg/kg bw/day

Application Route : Oral Exposure time : 42 d

Species : Mouse, female

Application Route : Dermal Exposure time : 4 weeks

Dose : 0, 208, 415, 830, 1245 mg/kg

Species : Mouse, male
Application Route : Dermal
Exposure time : 4 weeks

Dose : 0, 145, 289, 578 or 867 mg/kg

Abamectin:

Species : Dog LOEL : 0,5 mg/kg Application Route : Oral Exposure time : 18 weeks

Method : OECD Test Guideline 409

Species : Rat

LOAEC : 0,0027 mg/l
Application Route : Inhalation
Exposure time : 30 d

Species : Rat, female
NOAEL : 3,0 mg/kg
LOAEL : 6,7 mg/kg
Application Route : Oral
Exposure time : 28 d

Dose : 0, 3, 6.7, 8.9, 11.5 mg/kg bw/day Method : OECD Test Guideline 407

GLP : yes

Symptoms : Tremors, Fatality

Species : Rat, female
NOAEL : 3,8 mg/kg
LOAEL : 9,3 mg/kg
Application Route : Oral
Exposure time : 90 d

Dose : 0, 1.8, 3.8, 9.3, 9.6 mg/kg bw/day Method : OECD Test Guideline 408

GLP : yes

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Aspiration toxicity

Based on available data, the classification criteria are not met.

Components:

Abamectin:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Components:

Abamectin:

Remarks : Exposure causes symptoms of nervous system depression,

such as pupil dilation, vomiting, excitation, incoordination, tremors, lethargy, coma. High doses cause death by respirato-

ry failure.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 13,2 mg/l

Method: OECD Test Guideline 203

NOEC (Brachydanio rerio (zebrafish)): 3,2 mg/l

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,0214 mg/l

Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 0,0063 mg/l

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Selenastrum capricornutum (green algae)): 13,2 mg/l

Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): < 1 mg/l

Method: OECD Test Guideline 201

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Toxicity to terrestrial organ: LD50: 0.148

isms Species: Apis mellifera (bees)

Components:

2,6-di-tert-butyl-p-cresol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,57 mg/l

Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,48 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 0,4 mg/l

Exposure time: 72 h Method: EU Method C3

M-Factor (Acute aquatic tox-

icity)

1

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition

Toxicity to fish (Chronic tox-

icity)

LOEC: 0,14 mg/l

Exposure time: 30 d

Species: Oryzias latipes (Japanese medaka)

Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,069 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

1

Toxicity to soil dwelling or-

ganisms

NOEC: >= 100 mg/kg Exposure time: 28 d

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222

EC50: 87,9 mg/kg Exposure time: 56 d

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222

NOEC: 25 mg/kg Exposure time: 56 d

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 222

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Toxicity to terrestrial organ-

isms

NOEC: >= 268,1 mg/kg Exposure time: 35 d

Species: Birds

Abamectin:

Toxicity to fish LC50 (Danio rerio (zebra fish)): 0,027 - 0,044 mg/l

> Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,0008 - 0,0015 mg/l

End point: Immobilization

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

EC50 (Daphnia magna (Water flea)): 0,0002 - 0,00028 mg/l

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

EC50 (Daphnia pulex (Water flea)): 0,000159 mg/l

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

NOEC (Daphnia pulex (Water flea)): 0,000089 mg/l

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)):

56,68 - 85,41 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic tox- :

icity)

10.000

Toxicity to fish (Chronic tox-

icity)

NOEC: 0,0044 mg/l

Exposure time: 28 d

Species: Pimephales promelas (fathead minnow)

Method: OECD Test Guideline 210

Toxicity to daphnia and other : aquatic invertebrates (Chron-

NOEC: 0,00003 mg/l End point: reproduction

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ic toxicity) Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

M-Factor (Chronic aquatic

toxicity)

10.000

Toxicity to soil dwelling or-

ganisms

LC50: 14,24 - 18,37 mg/kg Exposure time: 14 d

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

Method: OECD Test Guideline 216

Remarks: No significant adverse effect on nitrogen mineraliza-

tion.

Method: OECD Test Guideline 217

Remarks: No significant adverse effect on carbon mineraliza-

tion.

Toxicity to terrestrial organ-

isms

LD50: 0,00071 - 0,00099 µg/bee

Exposure time: 48 h

End point: Acute contact toxicity Species: Apis mellifera (bees) Method: OECD Test Guideline 214

LD50: > 5000 ppm

Species: Coturnix japonica (Japanese quail)

Remarks: Dietary

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

2,6-di-tert-butyl-p-cresol:

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

Abamectin:

Biodegradability : Result: Not readily biodegradable.

Remarks: It undergoes degradation in the environment and in

waste water treatment plants.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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12.3 Bioaccumulative potential

Components:

2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 1.277 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 5,1

Abamectin:

Bioaccumulation : Species: Danio rerio (zebra fish)

Bioconcentration factor (BCF): 54 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 5,5

12.4 Mobility in soil

Components:

Abamectin:

Distribution among environ-

mental compartments

: Remarks: Mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Do not re-use empty containers.

Packaging that is not properly emptied must be disposed of as

the unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Abamectin, 2,6-Di-tert-butyl-p-cresol)

(Abamectin)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Abamectin, 2,6-Di-tert-butyl-p-cresol)

(Abamectin)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Abamectin, 2,6-Di-tert-butyl-p-cresol)

(Abamectin)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Abamectin, 2,6-Di-tert-butyl-p-cresol)

()

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Abamectin, 2,6-Di-tert-butyl-p-cresol)

(Abamectin)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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14.3 Transport hazard class(es)

Class Subsidiary risks

ADN 9 **ADR** 9 **RID** 9 **IMDG** 9 **IATA** 9

14.4 Packing group

ADN

Packing group Ш Classification Code M6 Hazard Identification Number : 90 Labels 9

ADR

Packing group Ш Classification Code M6 Hazard Identification Number : 90 Labels 9 Tunnel restriction code (-)

RID

Packing group Ш Classification Code M6 Hazard Identification Number : 90 Labels 9

IMDG

Packing group Ш Labels 9

F-A, S-F **EmS Code**

IATA (Cargo)

Packing instruction (cargo 964

aircraft)

Packing instruction (LQ) Y964 Packing group Ш

Labels Miscellaneous

IATA (Passenger)

Packing instruction (passen-964

ger aircraft)

Packing instruction (LQ) Y964 Packing group Ш

Labels Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Environmentally hazardous yes

Environmentally hazardous yes

IMDG

Marine pollutant yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Number on list 75, 3 If you intend to use this product as

tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) on substances that deplete the ozone

layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

ACUTE TOXIC

ENVIRONMENTAL HAZARDS E1

H2

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Abamectin

ENCS : Not in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H-Statements

H300 : Fatal if swallowed.
H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H330 : Fatal if inhaled.
H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

H361d : Suspected of damaging the unborn child.

H372 : Causes damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Repr. : Reproductive toxicity

Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

GR OEL : Greece. Exposure limit values GR OEL / TWA : Long term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

STOT SE 3

Classification of the mixture:		Classification procedure:
Acute Tox. 4	H302	Based on product data or assessment
Acute Tox. 4	H332	Calculation method
Acute Tox. 2	H319	Based on product data or assessment
STOT RE 2	H373	Calculation method

Calculation method

H335

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Aguatic Acute 1 H400 Calculation method

Aquatic Chronic 1 H410 Based on product data or assessment

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