Safety Data Sheet
Spirale na komary MAXIM

Safety Data Sheet dated 16/1/2024, version 1

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

1.1. Product identifier

Mixture identification:

Trade name:	Spirale na komary MAXIM
Trade code:	ZSDS115156
SAP Code:	115156

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

Recommended use:

Solid insecticide

Uses advised against:

Anything not relevant to the recommended uses.

1.3. Details of the supplier of the safety data sheet

Company:

ZOBELE HOLDING S.p.A

Via Fersina 4

38123 - Trento (Italy)

Phone n.+39 0461/303700 (Working hours)

Competent person responsible for the safety data sheet:

msds.it@zobele.com

1.4. Emergency telephone number

IR: Irish National Poison Centre: 01 809 2166 (24/7)

MT: Maltese emergency number: 112 (24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Hazard statements:

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents and container in accordance with local regulation.

Special Provisions:
EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

The product contain following active substances:
Prallethrin 0.1% (m/m) [CAS 23031-36-9]

2.3. Other hazards
No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.
3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

stta	Name	Ident. Number	Classification
>= 0,3% - < 0,5%	2,6-di-tert-butyl-p-cresol (BHT)	CAS: 128-37-0 EC: 204-881-4 REACH No.: 01-21194804 33-40-XXXX	Aquatic Acute 1 H400 Very toxic to aquatic life. M=1. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=1.
>= 0,1% - < 0,25%	prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate	Index number: 607-431-00-9 CAS: 23031-36-9 EC: 245-387-9	Acute Tox. 3 H331 Toxic if inhaled. Acute Tox. 4 H302 Harmful if swallowed. Aquatic Acute 1 H400 Very toxic to aquatic life. M=100. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=100.
>= 0,01% - < 0,1%	acetic acid ... %	Index number: 607-002-00-6 CAS: 64-19-7 EC: 200-580-7 REACH No.: 01-21194753 28-30-XXXX	Flam. Liq. 3 H226 Flammable liquid and vapour. Skin Corr. 1A H314 Causes severe skin burns and eye damage. Specific Concentration Limits: 10% <= C < 25%: Skin Irrit. 2 H315 10% <= C < 25%: Eye Irrit. 2 H319 25% <= C < 90%: Skin Corr. 1B H314 C >= 90%: Skin Corr. 1A H314
>= 0,01% -	4-{[4-(diethylamino)phenyl](phenyl)methyliden	CAS: 76994-37-1 EC: 278-585-9	Flam. Liq. 3 H226 Flammable liquid and vapour.

< 0,1%	e}-N,N-diethylcyclohexa-2,5-dien-1-iminium acetate	REACH No.: 01-2120115422-72-XXXX	Eye Dam. 1 H318 Causes serious eye damage. Acute Tox. 3 H301 Toxic if swallowed. Skin Corr. 1B H314 Causes severe skin burns and eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. Aquatic Acute 1 H400 Very toxic to aquatic life. M=10. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=10.
>= 0,01% - < 0,1%	2-ethylhexan-1-ol	CAS: 104-76-7 EC: 203-234-3 REACH No.: 01-2119487289-20-0030	Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.
< 0,01%	1,2-benzisothiazol-3(2H)-one	Index number: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9	Acute Tox. 2 H330 Fatal if inhaled. Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. M=1. Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. Aquatic Acute 1 H400 Very toxic to aquatic life. M=1. Specific Concentration Limits: C >= 0,05%: Skin Sens. 1 H317
< 0,01%	hydrochloric acid ... %	Index number: 017-002-01-X EC: 231-595-7 REACH No.: 01-2119484862-27-XXXX	Met. Corr. 1 H290 May be corrosive to metals. Skin Corr. 1B H314 Causes severe skin burns and eye damage. STOT SE 3 H335 May cause respiratory irritation. Specific Concentration Limits: 10% <= C < 25%: Skin Irrit. 2 H315 10% <= C < 25%: Eye Irrit. 2 H319

			C >= 10%: STOT SE 3 H335 C >= 25%: Skin Corr. 1B H314

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use fire fighter's clothing conforming to European standard EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Wet clean or vacuum up solids.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Do not contaminate food, beverages or containers intended to contain them during use.
Keep container tightly closed. Keep container dry. Keep away from heat. Protect from direct sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,6-di-tert-butyl-p-cresol (BHT) - CAS: 128-37-0

National - TWA(8h): 10 mg/m3 - Notes: Australia
National - TWA(8h): 10 mg/m3 - Notes: Austria
ACGIH - TWA(8h): 2 mg/m3 - Notes: (IFV), A4 - URT irr
National - TWA(8h): 2 mg/m3 - Notes: Belgium
Ontario - TWA(8h): 2 mg/m3 - Notes: Inhalable aerosol and vapour - Canada
National - TWA(8h): 10 mg/m3 - STEL: 20 mg/m3 - Notes: Denmark
National - TWA(8h): 10 mg/m3 - STEL: 20 mg/m3 - Notes: France
AGS - TWA(8h): 10 mg/m3 - STEL(15min): 40 mg/m3 - Notes: Inhalable aerosol and vapour - Germany
NIOSH - TWA(8h): 10 mg/m3 - STEL(15min): 40 mg/m3 - Notes: United States
National - TWA(8h): 10 mg/m3 - Notes: United Kingdom
ACGIH TLV®-STEL - TWA(8h): 2 mg/m3 - Notes: URT irr

acetic acid ... % - CAS: 64-19-7

TLV/TWA (EC) - TWA: 10 ppm - Notes: URT and eye irr, pulm func
STEL - STEL: 15 ppm - Notes: URT and eye irr, pulm func
EU - TWA(8h): 25 mg/m3, 10 ppm - STEL: 50 mg/m3, 20 ppm
National - TWA(8h): 13 mg/m3, 5 ppm - STEL(15min): 25 mg/m3, 10 ppm - Notes: Finland
AGS - TWA(8h): 25 mg/m3, 10 ppm - STEL(15min): 50 mg/m3, 20 ppm - Notes: Germany

National - TWA(8h): 25 mg/m3, 10 ppm - STEL(15min): 37 mg/m3, 15 ppm - Notes: Ireland
National - TWA(8h): 13 mg/m3, 5 ppm - STEL(15min): 25 mg/m3, 10 ppm - Notes: Sweden
NIOSH - TWA(8h): 25 mg/m3, 10 ppm - STEL(15min): 37 mg/m3, 15 ppm - Notes: United States
OSHA PEL - TWA(8h): 25 mg/m3, 10 ppm - Notes: United States
National - TWA(8h): 25 mg/m3, 10 ppm - STEL: 37 mg/m3, 15 ppm - Notes: United Kingdom
ACGIH - TWA(8h): 10 ppm - STEL: 15 ppm - Notes: URT and eye irr, pulm func

2-ethylhexan-1-ol - CAS: 104-76-7

EU - TWA(8h): 5.4 mg/m3, 1 ppm
National - TWA(8h): 5.4 mg/m3, 1 ppm - Notes: Finland
AGS - TWA(8h): 54 mg/m3, 10 ppm - STEL: 54 mg/m3, 10 ppm - Notes: Germany
DFG - TWA(8h): 54 mg/m3, 10 ppm - STEL: 54 mg/m3, 10 ppm - Notes: Germany
National - TWA(8h): 5.3 mg/m3, 1 ppm - Notes: Japan
National - TWA(8h): 160 mg/m3 - STEL: 320 mg/m3 - Notes: Poland
National - TWA(8h): 110 mg/m3, 20 ppm - STEL: 110 mg/m3, 20 ppm - Notes: Switzerland

hydrochloric acid ... % - Index number: 017-002-01-X

STEL - STEL: 2 ppm - Notes: URT irr
EU - TWA(8h): 8 mg/m3, 5 ppm - STEL: 15 mg/m3, 10 ppm
Ontario - STEL: Ceiling 2 ppm - Notes: Ceiling limit value - Canada
AGS - TWA(8h): 3 mg/m3, 2 ppm - STEL(15min): Ceiling 6 mg/m3, Ceiling 4 ppm - Notes: Germany
National - TWA(8h): 8 mg/m3, 5 ppm - STEL: 15 mg/m3, 10 ppm - Notes: Ireland
JSOH - TWA(8h): 3 mg/m3, 2 ppm - Notes: Japan
National - TWA(8h): 8 mg/m3, 5 ppm - STEL(15min): 15 mg/m3, 10 ppm - Notes: Romania
National - TWA(8h): 3 mg/m3, 2 ppm - STEL(15min): 6 mg/m3, 4 ppm - Notes: Sweden
National - TWA(8h): 8 mg/m3, 5 ppm - STEL(15min): 15 mg/m3, 10 ppm - Notes: Turkey
NIOSH - STEL: 7 mg/m3, 5 ppm - Notes: United States
ACGIH - STEL: Ceiling 2 ppm - Notes: A4 - URT irr

DNEL Exposure Limit Values

2,6-di-tert-butyl-p-cresol (BHT) - CAS: 128-37-0

Worker Professional: 3.5 mg/m3 - Consumer: 0.86 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 0.5 mg/kg - Consumer: 0.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

acetic acid ... % - CAS: 64-19-7

Worker Professional: 25 mg/m3 - Consumer: 25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 25 mg/m3 - Consumer: 25 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)

4-{[4-(diethylamino)phenyl](phenyl)methylidene}-N,N-diethylcyclohexa-2,5-dien-1-iminium acetate - CAS: 76994-37-1

Worker Professional: 2.96 mg/m3 - Consumer: 0.444 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 0.84 mg/kg - Consumer: 0.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-ethylhexan-1-ol - CAS: 104-76-7
Worker Professional: 12.8 mg/m3 - Consumer: 2.3 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 53.2 mg/m3 - Consumer: 26.6 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 53.2 mg/m3 - Consumer: 26.6 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)
Worker Professional: 23 mg/kg - Consumer: 11.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 1.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5
Worker Professional: 6.81 mg/m3 - Consumer: 1.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 0.966 mg/kg - Consumer: 0.345 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

hydrochloric acid ... % - Index number: 017-002-01-X
Worker Professional: 8 mg/m3 - Consumer: 8 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 15 mg/m3 - Consumer: 15 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)

PNEC Exposure Limit Values

2,6-di-tert-butyl-p-cresol (BHT) - CAS: 128-37-0
Target: Fresh Water - Value: 0.199 µg/L - Notes: Assessment factor: 1 000
Target: Marine water - Value: 0.02 µg/L - Notes: Assessment factor: 10 000
Target: STP - Value: 0.17 mg/l - Notes: Assessment factor: 10
Target: Freshwater sediments - Value: 99.6
Target: Marine water sediments - Value: 9.96
Target: Soil (agricultural) - Value: 47.69
Target: Food chain - Value: 8.33 mg/kg - Notes: Assessment factor: 30

acetic acid ... % - CAS: 64-19-7
Target: Fresh Water - Value: 3.058 mg/l
Target: Marine water - Value: 0.306 mg/l
Target: STP - Value: 85 mg/l
Target: Freshwater sediments - Value: 11.36 mg/kg
Target: Marine water sediments - Value: 1.136 mg/kg
Target: Soil (agricultural) - Value: 0.47 mg/kg

4-{[4-(diethylamino)phenyl](phenyl)methylidene}-N,N-diethylcyclohexa-2,5-dien-1-iminium acetate - CAS: 76994-37-1
Target: Fresh Water - Value: 2 µg/L
Target: Marine water - Value: 0.2 µg/L
Target: STP - Value: 0.069 mg/l
Target: Freshwater sediments - Value: 33.3 N.A.
Target: Marine water sediments - Value: 33.3 N.A.

Target: Soil (agricultural) - Value: 5.48 N.A.
2-ethylhexan-1-ol - CAS: 104-76-7
Target: Fresh Water - Value: 0.017 mg/l
Target: Marine water - Value: 0.002 mg/l
Target: STP - Value: 10 mg/l
Target: Freshwater sediments - Value: 0.284 mg/kg
Target: Marine water sediments - Value: 0.028 mg/kg
Target: Soil (agricultural) - Value: 0.047 mg/kg
Target: Food chain - Value: 55 mg/kg
1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5
Target: Fresh Water - Value: 4.03 µg/L
Target: Marine water - Value: 0.403 mg/l
Target: STP - Value: 1.03 mg/l
Target: Freshwater sediments - Value: 49.9 N.A.
Target: Marine water sediments - Value: 4.99 N.A.
Target: Soil (agricultural) - Value: 3 mg/kg

8.2. Exposure controls

Eye protection:

Dust protection eye glasses (EN ISO 16321).

Protection for skin:

Chemical protection clothing.

Protection for hands:

Gloves (EN 374)
NBR (nitrile rubber).

Respiratory protection:

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator Type P filter material., European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation should be checked for the purposes of compliance with the regulations environmental protection. Product residues should not be discharged without control in wastewater or water courses.

Appropriate engineering controls:

Manipulate the product in aerated working areas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Solid	--	--
Colour:	Green	--	--

Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	> 20,5 mm2/sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	N.A.	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

No dangerous reaction if manipulated and stored according to regulations.

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Avoid contact with strong oxidizing agents, reducing agents, acids or strong bases.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

No decomposition if used for the intended use.

SECTION 11: Toxicological information

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

Toxicological information of the product:

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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

2,6-di-tert-butyl-p-cresol (BHT) - CAS: 128-37-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate - CAS: 23031-36-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 417 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation Dust - Species: Rat 0.465 mg/l - Duration: 4h - Notes: Dust/mist

acetic acid ... % - CAS: 64-19-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3310 mg/kg

4-{[4-(diethylamino)phenyl](phenyl)methylidene}-N,N-diethylcyclohexa-2,5-dien-1-iminium acetate - CAS: 76994-37-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 206 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
2-ethylhexan-1-ol - CAS: 104-76-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat ca. 2047 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat <= 5.3 mg/l
1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 490 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
hydrochloric acid ... % - Index number: 017-002-01-X
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat 40989 ppm - Duration: 5 min
Test: LC50 - Route: Inhalation - Species: Rat 4701 ppm - Duration: 30 min

11.2. Information on other hazards

Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Spirale na komary MAXIM
The product is classified: Aquatic Chronic 2 - H411
2,6-di-tert-butyl-p-cresol (BHT) - CAS: 128-37-0
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 0.464 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 0.84 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 0.577 mg/l - Duration h: 72
prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl
2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate - CAS: 23031-36-9
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia magna 0.0062 mg/l - Duration h: 48
Endpoint: LC50 - Species: Oncorhynchus mykiss 0.012 mg/l - Duration h: 96
Endpoint: IC50 - Species: Pseudokirchneriella subcapitata 4.5 mg/l - Duration h: 72
Endpoint: NOEC - Species: Scenedesmus subspica 2.6 mg/l
acetic acid ... % - CAS: 64-19-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia magna > 1000 mg/l - Duration h: 48
4-{[4-(diethylamino)phenyl](phenyl)methylidene}-N,N-diethylcyclohexa-2,5-dien-1-iminium acetate - CAS: 76994-37-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 0.156 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia magna 0.028 mg/l - Duration h: 48
2-ethylhexan-1-ol - CAS: 104-76-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 17.1 mg/l - Duration h: 96
Endpoint: EC50 - Species: aq inv 39 mg/l - Duration h: 48
Endpoint: EC50 - Species: Desmodesmus subspica 16.6 mg/l - Duration h: 72

1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish ca. 16.7 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia magna 2.9 mg/l - Duration h: 48
Endpoint: EC50 - Species: Pseudokirchneriella subcapitata 70 µg/L - Duration h: 72
hydrochloric acid ... % - Index number: 017-002-01-X
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish <= 3.5 - Duration h: 96
Endpoint: EC50 - Species: Daphnia magna 4.92 - Duration h: 48
Endpoint: EC50 - Species: Chlorella vulgaris 4.82 - Duration h: 72
12.2. Persistence and degradability
2,6-di-tert-butyl-p-cresol (BHT) - CAS: 128-37-0
Biodegradability: The product is not biodegradable.
prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate - CAS: 23031-36-9
Biodegradability: The product is not biodegradable.
12.3. Bioaccumulative potential
2,6-di-tert-butyl-p-cresol (BHT) - CAS: 128-37-0
Test: Kow - Partition coefficient 5.1
Test: BCF - Bioconcentrantion factor 598.4
prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate - CAS: 23031-36-9
Test: Kow - Partition coefficient 4.49
12.4. Mobility in soil
prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate - CAS: 23031-36-9
Mobility in soil: Not mobile - Notes: Readily absorbed into the soil.
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%
12.7. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.
Additional disposal information:
Dispose of contents and container in accordance with applicable local and national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

ADR-UN Number:	3077
IATA-UN Number:	3077
IMDG-UN Number:	3077

14.2. UN proper shipping name

ADR-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-di-tert-butyl-p-cresol (BHT), prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate)
	Limited quantity (max. 5 kg).
IATA-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-di-tert-butyl-p-cresol (BHT), prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate)
	Limited quantity (max. 5 kg).
IMDG-Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,6-di-tert-butyl-p-cresol (BHT), prallethrin (ISO); ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate)
	Limited quantity (max. 5 kg).

14.3. Transport hazard class(es)

ADR-Class:	9
ADR - Hazard identification number:	90
IATA-Class:	9
IATA-Label:	9
IMDG-Class:	9

14.4. Packing group

ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

14.5. Environmental hazards

ADR-Enviromental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
Most important toxic component:	2,6-di-tert-butyl-p-cresol (BHT)
IMDG-EmS:	F-A , S-F

14.6. Special precautions for user

ADR-Subsidiary hazards:	-
ADR-S.P.:	274 335 375 601
ADR-Transport category (Tunnel restriction code):	3 (-)
IATA-Passenger Aircraft:	956
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	956
IATA-S.P.:	A97 A158 A179 A197
IATA-ERG:	9L
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A SW23

IMDG-Segregation: -

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:
Restriction 40
Restrictions related to the substances contained:
Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1
Product belongs to category: E2

15.2. Chemical safety assessment

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

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.