

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



Rapid 060 KS

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	13.06.2022	50001284	Date of first issue: 13.06.2022

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

1.1 Product identifier

Product name Rapid 060 KS

Other means of identification

Product code 50001284

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

Use of the Sub- stance/Mixture	Insecticide
Recommended restrictions on use	Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

Supplier Address

FMC Agro Bulgaria EOOD
ISKARSKO SHOSE BLVD. NO.7
TRADE CENTER EUROPE
BUILDING 7, OFFICE 8, FLOOR 4
1528 SOFIA
BULGARIA

Telephone: +359 (0) 2 818 5656
E-mail address: SDS-Info@fmc.com (E-Mail General Infor-
mation)

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Bulgaria: +(359)-32570104 (CHEMTREC)

Medical emergency:
Clinic of Toxicology at the Hospital " N.I. Pirogov"
Emergency telephone/fax: +359 2 9154 233

National number: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P260 Do not breathe mist or vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

GAMMA-CYHALOTHRIN
Diphenylmethanediisocyanate, polymeric

Additional Labelling

EUH208	Contains 1,2-benzisothiazol-3(2H)-one, ethylenediamine, 4,4'-methylenediphenyl diisocyanate. May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

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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)
GAMMA-CYHALOTHRIN	76703-62-3	Acute Tox. 3; H301 Acute Tox. 1; H330 Acute Tox. 4; H312 Skin Sens. 1; H317 STOT RE 1; H372 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	>= 2,5 - < 10
Solvent naphtha (petroleum), heavy arom.	64742-94-5 265-198-5 649-424-00-3	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 STOT SE 3; H336 EUH066	>= 2,5 - < 10
Diphenylmethanediisocyanate, polymeric	9016-87-9	Acute Tox. 4; H332 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1A; H334	>= 0,1 - < 1

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		<p>Skin Sens. 1A; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Respiratory Tract, Lungs) EUH029</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute inhalation toxicity (dust/mist): 0,387 mg/l</p>	
4,4'-methylenediphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9	<p>Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373</p> <hr/> <p>specific concentration limit Eye Irrit. 2; H319 ≥ 5 % STOT SE 3; H335 ≥ 5 % Skin Irrit. 2; H315 ≥ 5 % Resp. Sens. 1; H334 ≥ 0,1 %</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute inhalation toxicity (dust/mist): 0,368 mg/l</p>	≥ 0,1 - < 1
ethylenediamine	107-15-3 203-468-6 612-006-00-6	<p>Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334</p>	≥ 0,1 - < 0,25

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		<div>Skin Sens. 1; H317 Aquatic Chronic 3; H412</div> <div>Acute toxicity estimate</div> <div>Acute oral toxicity: 866 mg/kg Acute inhalation toxicity (vapour): 14,7 mg/l</div> <div>Acute dermal toxicity: 560 mg/kg</div>	
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	<div>Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411</div> <div>M-Factor (Acute aquatic toxicity): 10</div> <div>specific concentration limit Skin Sens. 1; H317 ≥ 0,05 %</div> <div>Acute toxicity estimate</div> <div>Acute oral toxicity: 500,0 mg/kg 490 mg/kg</div>	≥ 0,025 - < 0,05
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1 227-534-9 615-005-00-9	<div>Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373</div> <div>specific concentration limit Eye Irrit. 2; H319 ≥ 5 %</div>	< 0,1

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		STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 %	
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|-------------------------|---|
| General advice | : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off with soap and plenty of water.
Get medical attention if irritation develops and persists. |
| In case of eye contact | : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Do not induce vomiting without medical advice.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|--|
| Risks | : May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure. |
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4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--------------------------|
| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO_x)
Fluorinated compounds
Halogenated compounds
Carbon oxides
Hydrogen cyanide
Chlorinated compounds
Thermal decomposition can lead to release of irritating gases and vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

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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 formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage 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
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4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,05 mg/m3	BG OEL
		STEL	0,07 mg/m3	BG OEL

ethylenediamine	107-15-3	TWA	25 mg/m3	BG OEL
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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
GAMMA-CYHALOTHRIN			Systemic effects	0,034 mg/kg bw/day
4,4'-methylenediphenyl diisocyanate	Workers	Inhalation	Long-term local effects	0,05 mg/m3
	Workers	Dermal	Acute local effects	0,1 mg/m3
	Consumers	Inhalation	Long-term local effects	0,025 mg/m3
	Consumers	Dermal	Acute local effects	0,05 mg/m3
ethylenediamine	Workers	Inhalation	Long-term systemic effects	25 mg/m3
	Workers	Dermal	Long-term systemic effects	3,6 mg/kg
	Consumers	Inhalation	Long-term systemic effects	12,5 mg/m3
	Consumers	Oral	Long-term systemic effects	0,275 mg/kg
1,2-benzisothiazol-3(2H)-one	Workers	Inhalation	Long-term systemic effects	6,81 mg/m3
	Workers	Dermal	Long-term systemic effects	0,966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg
o-(p-isocyanatobenzyl)phenyl isocyanate	Workers	Inhalation	Long-term local effects	0,05 mg/m3
	Workers	Inhalation	Acute local effects	0,1 mg/m3
	Consumers	Inhalation	Long-term local effects	0,025 mg/m3
	Consumers	Inhalation	Acute local effects	0,05 mg/m3

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

Substance name	Environmental Compartment	Value
GAMMA-CYHALOTHRIN	Water	0,044 ng/l
4,4'-methylenediphenyl diisocyanate	Fresh water	1 mg/l
	Intermittent use/release	10 mg/l
	Marine water	0,01 mg/l
	Sewage treatment plant	1 mg/l
ethylenediamine	Fresh water	0,016 mg/l

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	Intermittent use/release	0,167 mg/l
	Marine water	0,002 mg/l
	Sewage treatment plant	0,500 mg/l
	Fresh water sediment	7,68 mg/kg
	Marine sediment	0,768 mg/kg
1,2-benzisothiazol-3(2H)-one	Fresh water	0,00403 mg/l
	Marine water	0,000403 mg/l
	Sewage treatment plant	1,03 mg/l
	Fresh water sediment	0,0499 mg/l
	Marine sediment	0,00499 mg/l
o-(p-isocyanatobenzyl)phenyl isocyanate	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Sewage treatment plant	1 mg/l
	Intermittent use (freshwater)	10 mg/l
	Soil	1 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Protective measures : Plan first aid action before beginning work with this product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : opaque, off-white
- Odour : oily
- Odour Threshold : not determined

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Melting point/freezing point	:	< 0 °C
Boiling point/boiling range	:	Decomposition
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	> 100 °C Method: Seta closed cup
Decomposition temperature	:	not determined
pH	:	5,71 (23 °C) (1% solution in water)
Viscosity		
Viscosity, dynamic	:	It is a non-newtonian fluid; viscosity decreases with increasing shear rate. > 10.000 mPa,s Shear rate 0.01 s ⁻¹ 45 - 130 mPa,s Shear rate 100 s ⁻¹
Solubility(ies)		
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	Not available for this mixture.
Vapour pressure	:	Not available for this mixture.
Relative density	:	not determined
Density	:	1,019 g/cm ³ (20 °C)
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable
Particle Size Distribution	:	Not applicable
Shape	:	Not applicable

9.2 Other information

Explosives	:	Not explosive
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Oxidizing properties	: Non-oxidizing
Self-ignition	: > 400 °C
Evaporation rate	: not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 Oral (Rat, female): 3.257 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Based on data from a similar product.

LD50 Oral (Rat, male): 4.444 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Based on data from a similar product.

Acute inhalation toxicity : LC50 (Rat): > 2,31 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

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GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from a similar product.

Acute dermal toxicity : LD50 Dermal (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Based on data from a similar product.

Components:

GAMMA-CYHALOTHRIN:

Acute oral toxicity : LD50 (Rat, female): 55 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat, male): > 50 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, female): 0,028 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, female): 1.650 mg/kg
Method: OECD Test Guideline 402

Solvent naphtha (petroleum), heavy arom.:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 420
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,688 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Diphenylmethanediisocyanate, polymeric:

Acute oral toxicity : LD50 (Rat): > 10.000 mg/kg
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): 0,387 - 0,49 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Based on data from similar materials

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Acute toxicity estimate: 0,387 mg/l
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit): > 9.400 mg/kg
Remarks: Based on data from similar materials

4,4'-methylenediphenyl diisocyanate:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): 0,368 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Target Organs: Lungs
Symptoms: respiratory tract irritation
Remarks: Based on data from similar materials

LC50 (Rat, male and female): 0,49 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Target Organs: Lungs
Remarks: Based on data from similar materials

Acute toxicity estimate: 0,368 mg/l
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit, male and female): 9.400 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials
no mortality

ethylenediamine:

Acute oral toxicity : LD50 (Rat, male and female): 866 mg/kg
Method: OECD Test Guideline 401

Acute toxicity estimate: 866 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): 14,7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute toxicity estimate: 14,7 mg/l
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit, male): 560 mg/kg

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Symptoms: Necrosis

Acute toxicity estimate: 560 mg/kg
Method: Calculation method

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : Acute toxicity estimate: 500,0 mg/kg
Method: Converted acute toxicity point estimate

LD50 (Rat, male and female): 490 mg/kg
Method: OECD Test Guideline 401

Acute toxicity estimate: 490 mg/kg
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

o-(p-isocyanatobenzyl)phenyl isocyanate:

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male and female): > 9.400 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

Product:

Assessment : No skin irritation
Method : OECD Test Guideline 404
Remarks : Minimal effects that do not meet the threshold for classification.
Based on data from a similar product.

Remarks : May cause skin irritation and/or dermatitis.

Components:

GAMMA-CYHALOTHRIN:

Assessment : No skin irritation
Method : OECD Test Guideline 404
Remarks : Minimal effects that do not meet the threshold for classification.

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit

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Result : No skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

Diphenylmethanediisocyanate, polymeric:

Result : Skin irritation

4,4'-methylenediphenyl diisocyanate:

Species : Rabbit

Exposure time : 24 h

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : Based on data from similar materials

ethylenediamine:

Species : Rabbit

Result : Corrosive after 3 minutes to 1 hour of exposure

1,2-benzisothiazol-3(2H)-one:

Species : Rabbit

Exposure time : 72 h

Method : OECD Test Guideline 404

Result : No skin irritation

o-(p-isocyanatobenzyl)phenyl isocyanate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : Based on data from similar materials

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Assessment : No eye irritation

Method : OECD Test Guideline 405

Remarks : Minimal effects that do not meet the threshold for classification.
Based on data from a similar product.

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

GAMMA-CYHALOTHRIN:

Assessment : No eye irritation

Method : OECD Test Guideline 405

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Result : No eye irritation

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit
Result : No eye irritation

Diphenylmethanediisocyanate, polymeric:

Result : Moderate eye irritation

4,4'-methylenediphenyl diisocyanate:

Species : Rabbit
Exposure time : 24 h
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : Based on data from similar materials

ethylenediamine:

Species : Rabbit
Result : Irreversible effects on the eye

1,2-benzisothiazol-3(2H)-one:

Species : Bovine cornea
Method : OECD Test Guideline 437
Result : No eye irritation

Species : Rabbit
Method : EPA OPP 81-4
Result : Irreversible effects on the eye

o-(p-isocyanatobenzyl)phenyl isocyanate:

Result : Moderate eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Assessment : The product is a skin sensitiser, sub-category 1B.
Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.
Remarks : Based on data from a similar product.

Result : Does not cause respiratory sensitisation.
Remarks : Based on data from a similar product.

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Remarks : Causes sensitisation.

Components:

GAMMA-CYHALOTHRIN:

Assessment	: May cause sensitisation by skin contact.
Method	: OECD Test Guideline 406
Result	: May cause sensitisation by skin contact.

Solvent naphtha (petroleum), heavy arom.:

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Not a skin sensitizer.

Diphenylmethanediisocyanate, polymeric:

Result	: Probability or evidence of high skin sensitisation rate in humans
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Result	: Probability or evidence of high respiratory sensitisation rate in humans
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4,4'-methylenediphenyl diisocyanate:

Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: May cause sensitisation by skin contact.

Exposure routes	: Inhalation
Species	: Rat
Result	: Causes sensitisation.
Remarks	: Based on data from similar materials

ethylenediamine:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Result	: May cause sensitisation by skin contact.

Species	: Humans
Result	: Probability or evidence of low to moderate respiratory sensitisation rate in humans

1,2-benzisothiazol-3(2H)-one:

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: May cause sensitisation by skin contact.

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Species : Guinea pig
Method : FIFRA 81.06
Result : May cause sensitisation by skin contact.

o-(p-isocyanatobenzyl)phenyl isocyanate:

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Result : Does not cause skin sensitisation.

Exposure routes : Inhalation
Species : Rat
Result : May cause sensitisation by inhalation.
Remarks : Based on data from similar materials

Result : May cause sensitisation by skin contact.
Remarks : This product is classified by the European Union as a skin sensitiser.

Germ cell mutagenicity

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Solvent naphtha (petroleum), heavy arom.:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration
Species: Rat
Application Route: inhalation (vapour)
Result: negative

Diphenylmethanediisocyanate, polymeric:

Genotoxicity in vitro : Result: equivocal

Genotoxicity in vivo : Result: equivocal

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

4,4'-methylenediphenyl diisocyanate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: Mutagenicity (Escherichia coli - reverse mutation)

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assay)
Result: negative

Genotoxicity in vivo : Test Type: In vivo mammalian alkaline comet assay
Species: Rat (male)
Application Route: Inhalation
Result: negative

Test Type: Micronucleus test
Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

ethylenediamine:

Genotoxicity in vitro : Test Type: Ames test
Result: positive

Test Type: Ames test
Result: negative

Test Type: Ames test
Test system: TA100
Metabolic activation: Metabolic activation
Result: positive

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Result: negative

Test Type: in vitro DNA damage and/or repair study
Test system: Chinese hamster ovary cells
Result: negative

Test Type: in vitro DNA damage and/or repair study
Test system: rat hepatocytes
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay
Species: Rat (male)
Application Route: Oral
Result: negative

Test Type: Sex-linked Recessive Lethal Test

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Species: *Drosophila melanogaster* (vinegar fly)

Application Route: Oral

Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

1,2-benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion
Exposure time: 4 h
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test

Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

o-(p-isocyanatobenzyl)phenyl isocyanate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: Mutagenicity (*Escherichia coli* - reverse mutation assay)
Result: negative

Genotoxicity in vivo : Test Type: In vivo mammalian alkaline comet assay
Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 489
Result: negative

Test Type: Micronucleus test

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Species: Rat
Application Route: Inhalation
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects., Based on data from similar materials

Solvent naphtha (petroleum), heavy arom.:

Species : Rat, male and female
Application Route : inhalation (vapour)
Exposure time : 12 month(s)
NOAEC : 1,8 mg/l
Result : negative
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Diphenylmethanediisocyanate, polymeric:

Application Route : inhalation (dust/mist/fume)
LOAEC : 0,006 mg/l
Symptoms : Tumour
Target Organs : Respiratory Tract, Lungs

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

4,4'-methylenediphenyl diisocyanate:

Species : Rat
Application Route : Inhalation
Result : positive
Symptoms : adenocarcinoma
Target Organs : Respiratory Tract

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

ethylenediamine:

Species : Rat
Application Route : Oral
Dose : 0.009, 0.045, 0.158 g EDA
NOAEL : 9 mg/kg bw/day
Method : OECD Test Guideline 453

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Result : negative
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

o-(p-isocyanatobenzyl)phenyl isocyanate:

Species : Rat
Application Route : Inhalation
Exposure time : 2 Years
Result : positive
Symptoms : Tumour

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Diphenylmethanediisocyanate, polymeric:

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

4,4'-methylenediphenyl diisocyanate:

Effects on foetal development : Species: Rat, male and female
Application Route: inhalation (dust/mist/fume)
Target Organs: Respiratory Tract

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

ethylenediamine:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: Oral
Dose: 50, 150, 500 mg/kg bw/d
General Toxicity - Parent: NOAEL: 23 mg/kg body weight
General Toxicity F1: NOAEL: 227 mg/kg body weight
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Species: Rat
Application Route: Oral
Dose: 50, 250, 1000 mg/kg bw/d

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General Toxicity Maternal: LOAEL: 114 mg/kg body weight
Embryo-foetal toxicity: LOAEC F1: 454 mg/kg body weight
Symptoms: Malformations were observed.

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

1,2-benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, male
Application Route: Ingestion
General Toxicity - Parent: NOAEL: 18,5 mg/kg body weight
General Toxicity F1: NOAEL: 48 mg/kg body weight
Fertility: NOAEL: 112 mg/kg bw/day
Symptoms: No effects on reproduction parameters
Method: OPPTS 870.3800
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

o-(p-isocyanatobenzyl)phenyl isocyanate:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: Inhalation
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Inhalation
Symptoms: Maternal effects
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

STOT - single exposure

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Diphenylmethanediisocyanate, polymeric:

Assessment : May cause respiratory irritation.

4,4'-methylenediphenyl diisocyanate:

Assessment : May cause respiratory irritation.

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o-(p-isocyanatobenzyl)phenyl isocyanate:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Product:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Components:

GAMMA-CYHALOTHRIN:

Target Organs : Nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Diphenylmethanediisocyanate, polymeric:

Exposure routes : Inhalation
Target Organs : Respiratory Tract, Lungs
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

4,4'-methylenediphenyl diisocyanate:

Exposure routes : Inhalation
Target Organs : Respiratory Tract
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

ethylenediamine:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

1,2-benzisothiazol-3(2H)-one:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

o-(p-isocyanatobenzyl)phenyl isocyanate:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

Solvent naphtha (petroleum), heavy arom.:

Species : Rat, male and female
NOAEC : 0,9 - 1,8 mg/l

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Application Route : inhalation (vapour)
Exposure time : 12 months

4,4'-methylenediphenyl diisocyanate:

Species : Rat, male and female
NOAEL : 0,0002 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Method : OECD Test Guideline 453
Target Organs : Respiratory Tract
Symptoms : Irritation
Remarks : Based on data from similar materials

ethylenediamine:

Species : Rat
NOAEL : 22 mg/kg
LOAEL : 114 mg/kg
Application Route : Oral
Exposure time : 90 d
Dose : 50, 260, 1040 mg/kg bw/d
Method : OECD Test Guideline 408
Symptoms : Liver effects

Species : Rat
NOAEL : 48 mg/kg
LOAEL : 107 mg/kg
Application Route : inhalation (vapour)
Test atmosphere : vapour
Exposure time : 6 w
Symptoms : Fatality

Species : Mouse
NOAEL : 8,3 mg/kg
Application Route : Dermal

1,2-benzisothiazol-3(2H)-one:

Species : Rat, male and female
NOAEL : 15 mg/kg
Application Route : Ingestion
Exposure time : 28 d
Method : OECD Test Guideline 407
Symptoms : Irritation

Species : Rat, male and female
NOAEL : 69 mg/kg
Application Route : Ingestion
Exposure time : 90 d
Symptoms : Irritation, Reduced body weight

o-(p-isocyanatobenzyl)phenyl isocyanate:

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Species	:	Rat
LOAEL	:	0,00023 mg/l
Application Route	:	Inhalation
Exposure time	:	2 years

Aspiration toxicity

Not classified based on available information.

Components:

GAMMA-CYHALOTHRIN:

The substance does not have properties associated with aspiration hazard potential.

Solvent naphtha (petroleum), heavy arom.:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	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.
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Experience with human exposure

Components:

Solvent naphtha (petroleum), heavy arom.:

Skin contact	:	Symptoms: Repeated exposure may cause skin dryness or cracking.
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ethylenediamine:

Inhalation	:	Target Organs: Respiratory system Symptoms: respiratory sensitiser
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Skin contact	:	Target Organs: Skin Symptoms: Sensitisation
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Further information

Product:

Remarks	:	On contact, the active ingredient can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transi-
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ent, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

Components:

GAMMA-CYHALOTHRIN:

Remarks : On contact, the active ingredient can cause feelings of burning, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 21 -38 µg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna Straus): 83.6 µg/l
aquatic invertebrates Exposure time: 48 h

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

Components:

GAMMA-CYHALOTHRIN:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,07 µg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 0,1 µg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (algae): > 2,85 mg/l
plants Exposure time: 72 h

NOEC (algae): 0,134 mg/l
Exposure time: 72 h

IC50 (Selenastrum capricornutum (green algae)): > 2,85 mg/l

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Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10.000

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0022 µg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 10.000

Toxicity to soil dwelling organisms : LC50:
> 1300 mg/kg dry weight (d.w.)
Exposure time: 14 d
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 2.000 mg/kg
Species: Colinus virginianus (Bobwhite quail)

LD50: 0.005 µg/bee
Exposure time: 24 h
End point: Acute contact toxicity
Species: Apis mellifera (bees)

LD50: 4.2 µg/bee
Exposure time: 24 h
End point: Acute oral toxicity
Species: Apis mellifera (bees)

Solvent naphtha (petroleum), heavy arom.:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1,4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : LL50 (Tetrahymena pyriformis): 677,9 mg/l
Exposure time: 72 h
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL50: 0,89 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

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Diphenylmethanediisocyanate, polymeric:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.000 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 1.640 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (activated sludge): 100 mg/l
Exposure time: 3 h
- Toxicity to soil dwelling organisms : 1.000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)

4,4'-methylenediphenyl diisocyanate:

- Toxicity to fish : NOEC (Oryzias latipes (Japanese medaka)): 3.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 129,7 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : NOELR (Desmodesmus subspicatus (green algae)): 1.640 mg/l
Test Type: Growth inhibition
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50 (activated sludge): 100 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials
- Toxicity to soil dwelling or- : LC50: 1.000 mg/kg

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ganisms
Exposure time: 14 d
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 207
Remarks: Based on data from similar materials

ethylenediamine:

Toxicity to fish : LC50 (*Poecilia reticulata* (guppy)): 640 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 16,7 mg/l
Exposure time: 48 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 71 mg/l
Exposure time: 72 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.3

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 3,2 mg/l
Exposure time: 72 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.3

Toxicity to microorganisms : EC10 (activated sludge): 0,5 mg/l
Exposure time: 2 h
Test Type: Respiration inhibition

Toxicity to fish (Chronic toxicity) : NOEC: > 10 mg/l
Exposure time: 28 d
Species: *Gasterosteus aculeatus* (threespine stickleback)
Test Type: semi-static test
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,160 mg/l
End point: reproduction
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (*Cyprinodon variegatus* (sheepshead minnow)): 16,7 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2,15 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

EC50 (activated sludge): 12,8 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

o-(p-isocyanatobenzyl)phenyl isocyanate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1.000 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

LC50 (Oryzias latipes (Japanese medaka)): > 3.000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 24 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l
Exposure time: 72 h
Test Type: static test

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Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: Growth inhibition
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Toxicity to daphnia and other : NOEC: > 10 mg/l
aquatic invertebrates (Chronic toxicity)
Exposure time: 21 Days
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

Components:

GAMMA-CYHALOTHRIN:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 21 %
Exposure time: 28 d

Solvent naphtha (petroleum), heavy arom.:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 58,6 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Diphenylmethanediisocyanate, polymeric:

Biodegradability : Result: Not readily biodegradable.
Exposure time: 28 d
Method: OECD Test Guideline 302C

4,4'-methylenediphenyl diisocyanate:

Biodegradability : Result: Not biodegradable
Method: OECD Test Guideline 302C

ethylenediamine:

Biodegradability : Result: Readily biodegradable.
Method: Regulation (EC) No. 440/2008, Annex, C.4-E

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1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301C

o-(p-isocyanatobenzyl)phenyl isocyanate:

Biodegradability : Result: Not biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 302C
Remarks: Based on data from similar materials

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

Components:

GAMMA-CYHALOTHRIN:

Bioaccumulation : Remarks: Can accumulate in aquatic organisms.

Partition coefficient: n-octanol/water : log Pow: 5,2 (25 °C)

Solvent naphtha (petroleum), heavy arom.:

Partition coefficient: n-octanol/water : log Pow: 3,72
Method: QSAR

Diphenylmethanediisocyanate, polymeric:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 28 d
Bioconcentration factor (BCF): 92

4,4'-methylenediphenyl diisocyanate:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 28 d
Bioconcentration factor (BCF): 92
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4,51 (20 °C)

ethylenediamine:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -7,02 (25 °C)
pH: 4

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log Pow: -4,42 (25 °C)
pH: 7

log Pow: -3,23 (25 °C)
pH: 9

log Pow: -1,62 (25 °C)
pH: > 12

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 56 d
Bioconcentration factor (BCF): 6,62
Method: OECD Test Guideline 305
Remarks: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)
pH: 7

log Pow: 0,99 (20 °C)
pH: 5

o-(p-isocyanatobenzyl)phenyl isocyanate:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 28 d
Bioconcentration factor (BCF): 92
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4,51
Method: OECD Test Guideline 117
Remarks: Based on data from similar materials

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

Components:

GAMMA-CYHALOTHRIN:

Distribution among environmental compartments : Remarks: immobile

1,2-benzisothiazol-3(2H)-one:

Distribution among environmental compartments : Koc: 9,33, log Koc: 0,97
Method: OECD Test Guideline 121

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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 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.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

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 chemical 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 handling 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

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IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Gamma-cyhalothrin)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Gamma-cyhalothrin)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Gamma-cyhalothrin)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Gamma-cyhalothrin)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(Gamma-cyhalothrin)

14.3 Transport hazard class(es)

ADN : 9

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

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

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

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

IMDG
Packing group : III

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Labels	:	9
EmS Code	:	F-A, S-F
IATA (Cargo)		
Packing instruction (cargo aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous
IATA (Passenger)		
Packing instruction (passenger aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous

14.5 Environmental hazards

ADN	
Environmentally hazardous	: yes
ADR	
Environmentally hazardous	: yes
RID	
Environmentally hazardous	: yes
IMDG	
Marine pollutant	: yes
IATA (Passenger)	
Environmentally hazardous	: yes
IATA (Cargo)	
Environmentally hazardous	: 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 3 4,4'-methylenediphenyl diisocyanate (Number on list 56)
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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : ethylenediamine

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) 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. E1 ENVIRONMENTAL HAZARDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

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.

(S)-ALPHA-CYAN-3-PHENOXYBENZYL (1R,3R)-3-[(Z)-2-CHLORO-3,3,3-TRIFLUOROPROPENYL]-2,2-

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DIMETHYLCYCLOPROPANECARBOXYLATE

ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not 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

H226	: Flammable liquid and vapour.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer.
H372	: Causes damage to organs through prolonged or repeated exposure.
H373	: May cause damage to organs through prolonged or repeated exposure.
H373	: May cause damage to organs through prolonged or repeated exposure if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
EUH029	: Contact with water liberates toxic gas.

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EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
BG OEL	: Bulgaria. Ordinance on the Protection of Workers from Risks related to Exposure to Chemical Agents at Work.
BG OEL / TWA	: 8-hr Limit
BG OEL / STEL	: 15-min 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; AIIIC - 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

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- Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : see user defined free text

Classification of the mixture:

Skin Sens. 1	H317
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Based on product data or assessment

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