

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Karitsu
UFI	: 0K5C-79EJ-H09D-USPQ
Product code	: IKF-916 160SC; IBE 3967; C01827
Type of product	: SC (Suspension Concentrate)
Other means of identification	: Cyazofamid 160g/l

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

Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Fungicide
Function or use category	: Plant protection products

1.3. Details of the supplier of the safety data sheet

Details of the supplier of the safety data sheet

Certis Belchim BV
Stadsplateau 16
NL 3521 AZ Utrecht
T +31 (0)30 200 1200
info@certisbelchim.com, www.certisbelchim.com

Distributor

BELCHIM CROP PROTECTION ROMANIA SRL
Str Ceasornicului, Nr. 3-7
Etaj 2, Ap. 9, Sector 1
București, Cod Poștal 014111
România
T +40 371 353 545
office-ro@certisbelchim.com, www.belchim.ro

1.4. Emergency telephone number

Emergency number	: +44 1235 239670 24 hours a day, 7 days a week
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

Full text of H- and EUH-statements: see section 16

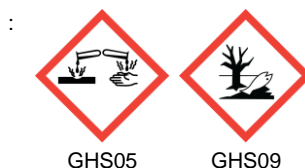
Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

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	P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor. P391 - Collect spillage. P501 - Dispose of contents/container in accordance with local regulations.
EUH-statements	: EUH208 - Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-methylisothiazol-3(2H)-one. May produce an allergic reaction. EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
Extra phrases	: SP1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). For additional information regarding the extra phrases, please refer to the label.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (Pesticide and active ingredients)	CAS-No.: 120116-88-3 EC Index-No.: 616-166-00-8	10%<C<20%	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
3-(polyoxyethylene) propylheptamethyltrisiloxane	CAS-No.: 67674-67-3	10%<C<20%	Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Eye Dam. 1, H318 Aquatic Chronic 2, H411
Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt	CAS-No.: 81065-51-2	1%<C<5%	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Docusate sodium	CAS-No.: 577-11-7 EC-No.: 209-406-4 REACH-no: 01-2119491296-29	1%<C<5%	Skin Irrit. 2, H315 Eye Dam. 1, H318
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	C<0.00046%	Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	C<0.0046%	Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 EUH071

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 (0.06 ≤ C < 0.6) Skin Irrit. 2; H315 (0.06 ≤ C < 0.6) Eye Irrit. 2; H319 (0.6 ≤ C ≤ 100) Skin Corr. 1C; H314 (0.6 ≤ C ≤ 100) Eye Dam. 1; H318
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Consult a doctor/medical service if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Move the affected person to the fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash skin with mild soap and water. If case of redness or irritation, call a doctor. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an eye specialist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell. Call a poison center or a doctor if you feel unwell.
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Symptoms/effects after eye contact	: Causes serious eye damage. Serious damage to eyes.
Symptoms/effects after ingestion	: None under normal conditions.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing agents can be used. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No fire hazard.
Explosion hazard : No direct explosion hazard.
Hazardous decomposition products in case of fire : Toxic and corrosive vapours may be released. Nitrous fumes. Sulphur oxides. Hydrofluoric Acid. hydrogenchloride. Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

- Firefighting instructions : Dilute toxic gases with water spray. Contain the extinguishing fluids by bunding (the product is hazardous for the environment). Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Gloves. Protective non-flammable clothing. Heat/fire exposure: compressed air/oxygen apparatus. Safety glasses. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Do not dispose of fire-fighting water in the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel

- Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate spillage area. Do not breathe vapours. Avoid contact with skin and eyes.

For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Protective gloves. Protective clothing. Eye protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Contain the spilled material by bunding. Contain leaking substance, pump over in suitable containers. Stop leak if safe to do so. Do not flush into surface water or sewer system. Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Take up liquid spill into absorbent material, e.g.: sand/earth. Shovel into suitable and closed container for disposal. Carefully collect remainder. Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material. Clean contaminated surfaces with an excess of water.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Do not discharge the waste into the drain. Wear personal protective equipment.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: The floor of the depot should be impermeable and designed to form a water-tight basin.
Storage conditions	: Keep the container hermetically sealed. Store at ambient temperature.
Maximum storage period	: 2 year
Packaging materials	: Keep only in original container. Store always product in container of same material as original container.

7.3. Specific end use(s)

For further information see section 1. Fungicide. Restricted to professional users.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses. Safety glasses

Skin protection

Skin and body protection:

protective clothing

Hand protection:

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard ISO 374-1. Breakthrough time : refer to the recommendations of the supplier

Respiratory protection

Respiratory protection:

Not necessary with sufficient ventilation

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Off-white.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 79 °C
Auto-ignition temperature	: 436 °C
Decomposition temperature	: Not available
pH	: 7.17 (1%)
pH solution	: 7.17 (Aqueous solution 1%)
Viscosity, kinematic	: 58.279 – 476.411 mm ² /s
Viscosity, dynamic	: 63 – 515 mPa·s (40°C); 156 - 914 mPa·s (20°C)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1081 kg/m ³ (20°C)
Relative density	: 1.08 (20 °C)
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

Avoid formation of vapours.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

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LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402)
LC50 Inhalation - Rat	> 5.915 mg/l (OECD 403)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5.5 mg/l/4h

Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)

LD50 oral rat	4786 mg/kg bodyweight
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Docusate sodium (577-11-7)

LD50 oral rat	> 2100 mg/kg bodyweight (OECD 401)
LD50 dermal rabbit	> 10000 mg/kg (OECD 402)
LC50 Inhalation - Rat (Dust/Mist)	20 mg/l air

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

LD50 oral rat	66 mg/kg bodyweight (OECD 401)
LD50 dermal rat	> 141 mg/kg bodyweight (OECD 402)
LC50 Inhalation - Rat (Dust/Mist)	0.17 mg/l air

2-methylisothiazol-3(2H)-one (2682-20-4)

LD50 oral rat	120 mg/kg bodyweight (EPA OPPTS 870.1100)
LD50 dermal rat	242 mg/kg bodyweight (OECD 402)
LC50 Inhalation - Rat (Dust/Mist)	0.11 mg/l/4h (OECD 403)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 7.17 (1%)

Additional information : (OECD 404 method)

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

pH	3.43 Temp.: 20 °C Concentration: 10 g/L
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2-methylisothiazol-3(2H)-one (2682-20-4)

pH	2.58 Temp.: 25 °C Concentration: 50 g/L
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Serious eye damage/irritation : Causes serious eye damage.
pH: 7.17 (1%)

Additional information : (OECD 405 method)

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

pH	3.43 Temp.: 20 °C Concentration: 10 g/L
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2-methylisothiazol-3(2H)-one (2682-20-4)

pH	2.58 Temp.: 25 °C Concentration: 50 g/L
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Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (OECD 406 method)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOAEL (chronic, oral, animal/male, 2 years)	> 171 mg/kg bw/day
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOAEL (oral, rat)	29.5 mg/kg bodyweight/day
NOAEL (dermal, rat/rabbit)	89 mg/kg bodyweight mg/kg bodyweight/day

Docusate sodium (577-11-7)

NOAEL (oral, rat)	> 1000 mg/kg bodyweight (OECD 408)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOAEL (oral, rat, 90 days)	29.5 mg/kg bodyweight/day
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	58.279 – 476.411 mm ² /s
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11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The substance/mixture has no endocrine disrupting properties.
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

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LC50 - Fish [1]	67.89 mg/l (OECD 203 [Oncorhynchus mykiss])
EC50 - Crustacea [1]	13.5 mg/l (OECD 202 [Daphnia magna])
ErC50 algae	48.71 mg/l (OECD 201 [Pseudokirchneriella subcapitata])
NOEC (acute)	0.5 mg/l Pseudokirchneriella subcapitata
NOEC chronic algae	0.5 mg/l (OECD 201 [Pseudokirchneriella subcapitata])

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

LC50 - Fish [1]	> 0.107 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 0.107 mg/l Daphnia magna (Water flea)
ErC50 algae	0.081 mg/l Selenastrum capricornutum
NOEC chronic fish	0.09 mg/l Pimephales promelas

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cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

NOEC chronic crustacea	0.011 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.023 mg/l Selenastrum capricornutum

Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)

LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	34 mg/l (OECD 202 [Daphnia magna])
ErC50 algae	74.4 mg/l (DIN 38412 [Desmodesmus subspicatus])

Docusate sodium (577-11-7)

LC50 - Fish [1]	49 mg/l (Danio rerio)
EC50 - Crustacea [1]	6.6 mg/l (Daphnia magna)
EC50 - Other aquatic organisms [1]	164 mg/l (DIN 38412-8 [Pseudomonas putida])
ErC50 algae	83 mg/l (Desmodesmus subspicatus)

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

LC50 - Fish [1]	0.19 mg/l (EPA OPP 721 [Oncorhynchus mykiss])
EC50 - Crustacea [1]	0.007 mg/l (Acartia tonsa)
NOEC chronic crustacea	0.1 mg/l (EPA OPP 724 [Daphnia magna])

2-methylisothiazol-3(2H)-one (2682-20-4)

LC50 - Fish [1]	4.8 mg/l (OECD 203 [Oncorhynchus mykiss])
EC50 - Other aquatic organisms [1]	41 mg/l (OECD 209)
NOEC chronic fish	2.1 mg/l (OECD 210 [Pimephales promelas])
NOEC chronic crustacea	0.044 mg/l (OECD 211 [Daphnia magna])
NOEC chronic algae	0.05 mg/l (OECD 201 [Pseudokirchneriella subcapitata])

12.2. Persistence and degradability

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Persistence and degradability	Contains non readily biodegradable component(s).
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Docusate sodium (577-11-7)

Biodegradation	91 % (ISO 14593)
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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

Biodegradation	48 – 56 % (OECD 301B)
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2-methylisothiazol-3(2H)-one (2682-20-4)

Biodegradation	0 % (OECD 301D)
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12.3. Bioaccumulative potential

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolylimidazole-1-sulfonamide (120116-88-3)

BCF - Fish [1]	286 Oncorhynchus mykiss (Rainbow trout)
Partition coefficient n-octanol/water (Log Pow)	3.2 (24-25°C)

Docusate sodium (577-11-7)

BCF - Fish [1]	0.89 – 9.3 l/kg (Cyprinus carpio)
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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
BCF - Fish [1]	41 – 54 (OECD 305 [Lepomis macrochirus])
2-methylisothiazol-3(2H)-one (2682-20-4)	
BCF - Fish [1]	5.8 – 48 (Lepomis macrochirus)

12.4. Mobility in soil

cyazofamid (ISO); 4-chloro-2-cyano-N, N-dimethyl-5-p-tolyimidazole-1-sulfonamide (120116-88-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.13
Docusate sodium (577-11-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.32 – 1.1 (SRC PCKOCWIN v2.0)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.81 – 1 (calculated value)
2-methylisothiazol-3(2H)-one (2682-20-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 (OECD 106)

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Do not dispose of with domestic waste. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Incinerate at a licensed installation. Dispose of in accordance with relevant local regulations. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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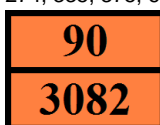
ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	Environmentally hazardous substance, liquid, n.o.s. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Cyazofamid), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyazofamid), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Special provisions (ADR) : 274, 335, 375, 601, 650

Orange plates :



Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Classification code (ADN) : M6

Number of blue cones/lights (ADN) : 0

Rail transport

No data available

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

Not applicable for preparations

The active ingredient used in Plant protection products is already compliant as the active substances are exempted according to Article 15 of REACH and approved as registered according to Regulation 1107/2009.

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes

Section	Changed item	Comments
3	Composition/information on ingredients	Modified
4.1	First-aid measures for first aider	Added
4.1	First-aid measures after skin contact	Modified
4.1	First-aid measures after inhalation	Modified
4.1	First-aid measures after ingestion	Modified
4.1	First-aid measures after eye contact	Modified
4.2	Symptoms/effects after inhalation	Added
4.2	Symptoms/effects after ingestion	Added

Indication of changes		
Section	Changed item	Comments
4.2	Symptoms/effects after eye contact	Modified
5.1	Unsuitable extinguishing media	Added
5.1	Suitable extinguishing media	Modified
5.2	Explosion hazard	Added
5.2	Fire hazard	Added
5.3	Firefighting instructions	Modified
5.3	Protection during firefighting	Modified
6.1	Emergency procedures	Added
6.1	General measures	Modified
6.1	Protective equipment	Modified
6.1	Emergency procedures	Modified
6.2	Environmental precautions	Modified
6.3	Methods for cleaning up	Modified
6.3	For containment	Modified
7.1	Additional hazards when processed	Added
7.1	Hygiene measures	Modified
7.1	Precautions for safe handling	Modified
7.2	Packaging materials	Modified
8.2	Personal protective equipment	Added
8.2	Eye protection	Modified
8.2	Appropriate engineering controls	Modified
9	Melting point	Added
9	Appearance	Removed
9	Viscosity, dynamic	Modified
9	Relative density	Modified
11.1	Additional information	Modified
11.1	Additional information	Modified
11.1	Additional information	Modified
11.1	LD50 oral rat	Modified
11.1	LD50 dermal rat	Modified
11.1	LC50 Inhalation - Rat	Modified
12.1	Ecology - general	Added
12.1	NOEC chronic algae	Added
12.1	ErC50 (algae)	Modified
12.1	LC50 fish 1	Modified
12.1	EC50 Daphnia 1	Modified
12.2	Persistence and degradability	Added

Indication of changes		
Section	Changed item	Comments
13.1	Additional information	Added
13.1	Sewage disposal recommendations	Added
13.1	Product/Packaging disposal recommendations	Modified
13.1	Waste treatment methods	Modified
15.2	Chemical safety assessment	Modified
16	Abbreviations and acronyms	Modified

Abbreviations and acronyms:	
ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

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Abbreviations and acronyms:	
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Data sources : SDS of suppliers. ECHA (European Chemicals Agency). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A

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Full text of H- and EUH-statements:	
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic 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.
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.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Dam. 1	H318	
Aquatic Chronic 1	H410	Expert judgement

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.