

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

1.1. Product identifier

Product form : Mixture
Trade name : Zenby
Product code : IKF-5411 400 SC, IBE 4022; C01834
Type of product : SC (Suspension Concentrate)
Other means of identification : Isofetamid 400g/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

Certis Belchim B.V.,
Suite 5, 3 Riverside, Granta Park,
Great Abington Cambridgeshire, CB21 6AD.
United Kingdom
T +44 (0)1223 652500, F +44 (0)1223 891210
info.uk@certisbelchim.com, www.certisbelchim.co.uk

1.4. Emergency telephone number

Emergency number : +44 1235 239670
24 hours a day, 7 days a week

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, H411
Category 2
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS09

Signal word (CLP) :

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Hazard statements (CLP) :

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P280 - Wear protective gloves, protective clothing.

P391 - Collect spillage.

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH-statements : EUH208 - Contains 1,2 benzisothiazol-3(2H)-one (2634-33-5). May produce an allergic reaction.
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

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

Component	
Substance(s) meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Decamethylcyclopentasiloxane (541-02-6)
Substance(s) meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Decamethylcyclopentasiloxane (541-02-6)

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 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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	Decamethylcyclopentasiloxane (541-02-6)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isofetamid (Pesticide and active ingredients)	CAS-No.: 875915-78-9	25%<C<50%	Aquatic Chronic 2, H411
poly(oxy-1,2-ethanediyl), alpha-[tris(1-phenylethyl)phenyl]-omega-hydroxy-	CAS-No.: 99734-09-5	1%<C<2%	Aquatic Chronic 3, H412
alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt	CAS-No.: 68425-94-5	1%<C<2%	Eye Irrit. 2, H319
1,2 benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	0.005%<C<0.036%	Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.21 mg/l) Acute Tox. 4 (Oral), H302 (ATE=450 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Decamethylcyclopentasiloxane substance listed on REACH Candidate List	CAS-No.: 541-02-6 EC-No.: 208-764-9		Not classified

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
1,2-benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	(0.036 ≤ 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	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe 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 with plenty of water. Consult an eye specialist if necessary. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth out with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.
Self protection of the first-aiders	: First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects	: None known.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: BC-powder. Polyvalent foam. 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 fumes may be released. Carbon oxides (CO, CO ₂). nitrogen oxides (NO _x) and sulphur oxides.

5.3. Advice for firefighters

Firefighting instructions	: Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Put on breathing apparatus. Full protective flameproof clothing. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: 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	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Mark the danger area. Do not get in eyes, on skin, or on clothing. Mechanically ventilate the spillage area.
For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Concerning personal protective equipment to use, see section 8. 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. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment	: Take up liquid spill into absorbent material, e.g.: sand/earth. Put into a labelled container and provide safe disposal. 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. Wash contaminated area with large amounts of water.
Other information	: Recover the cleaning water for later disposal. 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.

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. Wear personal protective equipment. Provide local exhaust or general room ventilation. Do not breathe vapours.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. 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	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store tightly closed in a dry and cool place. Protect from heat and direct sunlight. Protect from freezing.
Special rules on packaging	: Store in original container.
Packaging materials	: Polyethylene terephthalate (PET). Polyethylene (high density). Always store 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 with side shields. Face shield. Safety glasses

Skin protection

Skin and body protection:

Complete protective clothing

Hand protection:

Protective gloves. 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:

Self contained breathing apparatus

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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 applicable
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 99 °C
Flammability	: Not available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flash point	: > 99 °C
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
pH	: 7.3 (20°C)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 50 – 1800 mPa·s (40°C)
Solubility	: No data available.

Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: No data available
Vapour pressure at 50°C	: No data available
Density	: 1100 kg/m ³ (20°C)
Relative density	: 1.1 (20°C) (OECD 109)
Relative vapour density at 20°C	: No data available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

Heat and ignition sources.

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.

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)

Zenby

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	> 5.13 mg/l/4h (OECD 436 method)

Isofetamid (875915-78-9)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402)
LC50 Inhalation - Rat	> 4.8 mg/l (OECD 436)

1,2 benzisothiazol-3(2H)-one (2634-33-5)

LD50 oral rat	490 mg/kg bodyweight (OECD 401)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402)

1,2 benzisothiazol-3(2H)-one (2634-33-5)	
LC50 Inhalation - Rat (Dust/Mist)	0.5 mg/l/4h
Decamethylcyclopentasiloxane (541-02-6)	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 7.3 (20°C)
Additional information	: (OECD 404 method) (OECD 405 method)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 7.3 (20°C)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (OECD 429 method)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
1,2 benzisothiazol-3(2H)-one (2634-33-5)	
Additional information	(OECD 476 method). (OECD 471 method)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Isofetamid (875915-78-9)	
NOAEL (chronic, oral, animal/male, 2 years)	210 mg/kg bw/day
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Isofetamid (875915-78-9)	
NOAEL (animal/male, F0/P)	5.76 mg/kg bw/day
NOAEL (animal/male, F1)	57.1 mg/kg bw/day
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Isofetamid (875915-78-9)	
LOAEL (oral, rat, 90 days)	68.9 mg/kg bodyweight/day (OECD 408)
NOAEL (dermal, rat/rabbit, 28 days)	≥ 1000 mg/kg bodyweight/day (OECD 410)
NOAEL (oral, rat, 90 days)	6.65 mg/kg bodyweight/day (OECD 408)
1,2 benzisothiazol-3(2H)-one (2634-33-5)	
NOAEL (oral, rat, 90 days)	69 mg/kg bodyweight/day (EPA OPP 82-1)
Decamethylcyclopentasiloxane (541-02-6)	
NOAEL (dermal, rat/rabbit, 28 days)	≥ 1600 mg/kg bodyweight/day (OECD 410)
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight/day (OECD 408)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Zenby	
Viscosity, kinematic	No data available

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.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: 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)	: Toxic to aquatic life with long lasting effects.

Zenby

LC50 - Fish [1]	31 mg/l (Oncorhynchus mykiss (OECD 203))
EC50 - Crustacea [1]	25 mg/l (Daphnia magna (OECD 202))
ErC50 algae	940 mg/l (Pseudokirchneriella subcapitata (OECD 201))
NOEC chronic algae	10 mg/l (Pseudokirchneriella subcapitata (OECD 201))

Isofetamid (875915-78-9)

LC50 - Fish [1]	2.27 mg/l (Oncorhynchus mykiss (OECD 203))
EC50 - Crustacea [1]	4.7 mg/l (Daphnia magna (OECD 202))
ErC50 algae	> 4.3 mg/l (Pseudokirchneriella subcapitata (OECD 201))
NOEC chronic fish	0.18 mg/l (Pimephales promelas (OECD 210))
NOEC chronic crustacea	0.81 mg/l (Daphnia magna (OECD 211))

poly(oxy-1,2-ethanediyl), alpha-[tris(1-phenylethyl)phenyl]-omega-hydroxy- (99734-09-5)

LC50 - Fish [1]	21 mg/l (Danio rerio)
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1,2 benzisothiazol-3(2H)-one (2634-33-5)

LC50 - Fish [1]	2.2 mg/l (OECD 203 [Oncorhynchus mykiss])
EC50 - Crustacea [1]	2.9 mg/l (OECD 202 [Daphnia magna])
EC50 - Other aquatic organisms [1]	13 mg/l (OECD 209)
NOEC chronic algae	55 µg/l (OECD 201 [Pseudokirchneriella subcapitata])

alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt (68425-94-5)

LC50 - Fish [1]	10 – 100 mg/l (OECD 203 [Danio rerio])
EC50 - Crustacea [1]	> 100 mg/l (OECD 202 [Daphnia magna])
EC50 72h - Algae [1]	> 100 mg/l (OECD 201 [Pseudokirchneriella subcapitata])

Decamethylcyclopentasiloxane (541-02-6)

LC50 - Fish [1]	> 16 µg/l (ASTM E729-96 [Oncorhynchus mykiss])
EC50 - Crustacea [1]	> 2.9 µg/l (OECD 202 [Daphnia magna])
ErC50 algae	> 12 µg/l (OECD 201 [Pseudokirchneriella subcapitata])
NOEC chronic fish	≥ 14 µg/l (OECD 210 [Oncorhynchus mykiss])
NOEC chronic crustacea	≥ 15 µg/l (OECD 211 [Daphnia magna])

12.2. Persistence and degradability

Zenby

Persistence and degradability	Contains non readily biodegradable component(s).
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Isofetamid (875915-78-9)

Biodegradation	< 1 % (OECD 301F method)
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1,2 benzisothiazol-3(2H)-one (2634-33-5)

Biodegradation	85 % (OECD 301C)
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Decamethylcyclopentasiloxane

Biodegradation	0.14 % (OECD 310)
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12.3. Bioaccumulative potential**Zenby**

Bioaccumulative potential	The product is not bioaccumulating.
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Isofetamid (875915-78-9)

Partition coefficient n-octanol/water (Log Kow)	2.5 (OECD 117 method)
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1,2 benzisothiazol-3(2H)-one (2634-33-5)

BCF - Fish [1]	6.6 (OECD 305 [Lepomis macrochirus])
Partition coefficient n-octanol/water (Log Kow)	-0.9 – 0.99 (20°C) [EU A.8]

Decamethylcyclopentasiloxane (541-02-6)

BCF - Fish [1]	1950 – 13300 (OECD 305 [Pimephales promelas])
Partition coefficient n-octanol/water (Log Kow)	8.023 (OECD 123)

12.4. Mobility in soil**1,2 benzisothiazol-3(2H)-one (2634-33-5)**

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (OECD 121)
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Decamethylcyclopentasiloxane (541-02-6)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.17 (OECD 106)
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12.5. Results of PBT and vPvB assessment**Component**

Substance(s) meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Decamethylcyclopentasiloxane (541-02-6)
Substance(s) meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Decamethylcyclopentasiloxane (541-02-6)

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	: Dispose of in accordance with relevant local regulations. Incinerate at a licensed installation. 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	: Completely empty the packaging prior to decontamination. Do not re-use empty containers. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Ecological waste information	: Do not discharge into drains or rivers.

SECTION 14: Transport information

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

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. (Isofetamid; Ethoxylated polyarylphenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isofetamid; Ethoxylated polyarylphenol)	Environmentally hazardous substance, liquid, n.o.s. (Isofetamid; Ethoxylated polyarylphenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isofetamid; Ethoxylated polyarylphenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isofetamid; Ethoxylated polyarylphenol)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isofetamid; Ethoxylated polyarylphenol), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isofetamid; Ethoxylated polyarylphenol), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Isofetamid; Ethoxylated polyarylphenol), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isofetamid; Ethoxylated polyarylphenol), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isofetamid; Ethoxylated polyarylphenol), 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		

Orange plates

:



EAC code

: •3Z

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

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)

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 (EU 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 (EC 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

No chemical safety assessment has been carried out

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.

SECTION 16: Other information

Indication of changes

Section	Changed item	Comments
2.2	Precautionary statements (CLP)	Modified
3	Composition/information on ingredients	Modified
9	Density	Modified
9	Flammability (solid, gas)	Removed
9	Colour	Modified
11.1	Additional information	Added
11.1	Additional information	Added
12.3	Bioaccumulative potential	Modified

Abbreviations and acronyms:

ACGIH	American Conference of Governmental 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 Abstracts 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)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms:	
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
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.
Other information	: The United Kingdom (UK) left the European Union (EU) on 31/01/2020. The classification and labelling regime used within Great Britain (GB) is based on the EU regulatory regime in force at the time of UK leaving the EU. All classification and labelling ensures the safe use of the product and is based on the best scientific knowledge available to us. Information will be updated as the UK regulators publish any new classification and labelling regulation.

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 4 (Oral)	Acute toxicity (oral), 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 Irrit. 2	Skin corrosion/irritation, Category 2

Zenby

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Skin Sens. 1A	Skin sensitisation, category 1A
H302	Harmful if swallowed.
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.
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.
EUH208	Contains 1,2 benzisothiazol-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]:		
Aquatic Chronic 2	H411	Calculation method

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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.