

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11/01/2016 Revision date: 14/03/2023 Supersedes version of: 31/07/2018 Version: 1.3

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

1.1. Product identifier

Product form Product name Mixture

Quadrasan - Biosolve :

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Specialised biological washroom dosing product

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Vectair Systems Unit 3 The Trident Centre Armstrong Road RG24 8NU Basingstoke UK T +44 (0) 1256 319500 (Office Hours 09:00 to 17:00) prod-dev@vectairsystems.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

Presents no particular risk to the environment.

2.2. Label elements

Labelling according to Regulation (EC) No.	1272/2008 [CLP]
Precautionary statements (CLP)	 P262 - Do not get in eyes, on skin, or on clothing. P264 - Wash hands thoroughly after handling. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
EUH-statements	 contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. EUH208 - Contains 1,2-benzisothiazolin-3-one (2634-33-5). May produce an allergic reaction.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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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 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 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2-benzisothiazolin-3-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540- 60-XXXX	< 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540- 60-XXXX	(0.05 ≤C ≤ 100) Skin Sens. 1, 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	: To our knowledge, the product does not present any particular risk, under normal conditions of use. Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
Symptoms/effects after inhalation	: May cause slight temporary irritation.
Symptoms/effects after skin contact	: May cause slight irritation to the skin.
Symptoms/effects after eye contact	: May cause eye irritation.

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	: Water spray. Dry powder. Foam. Carbon dioxide.			
5.2. Special hazards arising from the substance or mixture				
Hazardous decomposition products in case of fire : None known.				
5.3. Advice for firefighters				
Protection during firefighting	: 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	: Avoid contact with skin and eyes. Wash immediately with plenty of water.			
6.1.1. For non-emergency personnel				
Protective equipment	: No special requirement . Avoid contact with skin.			
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.			
Measures in case of dust release	: Not applicable (aqueous liquid).			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information			
F	refer to section 8: "Exposure controls/personal protection".			
Emergency procedures	: Wash immediately with plenty of water.			
6.2. Environmental precautions				

This product does not present any particular risk for the environment.

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	 Stop leak without risks if possible. Clean contaminated surfaces with an excess of water. Small amount of unwanted product may be flushed with water to sewer. 	

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling: Avoid contact with skin and eyes. Ensure spraying away from persons.Hygiene measures: Always wash hands after handling the product.			
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures Storage conditions Incompatible products Incompatible materials	 Does not require any specific or particular technical measures. Store in a dry place. Strong acids. Strong alkalis. Strong acids. Strong alkalis. 		
7.3. Specific end use(s)			

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

No special requirement.

8.2.2. Personal protection equipment

Personal protective equipment:

No special requirement . Avoid contact with eyes. Always wash hands after handling the product.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Eye protection not applicable. Avoid contact with eyes

8.2.2.2. Skin protection

Skin and body protection: No special requirement

Hand protection:

In case of repeated or prolonged contact wear gloves

8.2.2.3. Respiratory protection

Respiratory protection: No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

Thermal hazard protection: Not required.

8.2.3. Environmental exposure controls

Environmental exposure controls:

No special environmental concerns.

Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Liquid	
Colour	: Colourless.	
Appearance	: Liquid.	
Odour	: Pleasant.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not applicable	
Explosive limits	: Not available	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: Not available	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
рН	: 6-8	
Viscosity, kinematic	: Not available	
Solubility	: Easily soluble.	
Partition coefficient n-octanol/water (Log Kow	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: Not available	
Relative density	: Not available	
Relative vapour density at 20°C	: Not available	
Particle characteristics	: Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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 under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified		
1,2-benzisothiazolin-3-one (2634-33	s-5)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
Skin corrosion/irritation	: Not classified pH: 6 – 8		
Serious eye damage/irritation	: Not classified pH: 6 – 8		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
1,2-benzisothiazolin-3-one (2634-33	i-5)		
NOAEL (animal/female, F1)	56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic)	 The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified 		
1,2-benzisothiazolin-3-one (2634-33-5)			
LC50 - Fish [1]	≈ 16.7 mg/l Test organisms (species): Cyprinodon variegatus		
LC50 - Fish [2]	2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)		
EC50 - Crustacea [1]	2.94 mg/l Test organisms (species): Daphnia magna		
EC50 - Crustacea [2]	2.9 mg/l Test organisms (species): Daphnia magna		
12.2. Persistence and degradability			
Quadrasan – Biosolve			
Persistence and degradability	Readily biodegradable.		

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12.3. Bioaccumulative potential				
Quadrasan – Biosolve				
Bioaccumulative potential	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.			
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Endocrine disrupting properties				
Adverse effects on the environment caused by endocrine disrupting properties	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				
No additional information available				

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number or ID	number			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippir	ng name		·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)		·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	·		·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental ha	zards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea

Not applicable

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Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

15.1.1. 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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
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

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Abbreviations and acronyms:		
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH208	Contains 1,2-benzisothiazolin-3-one (2634-33-5). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H315	Causes skin irritation.

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Full text of H- and EUH-statements:	
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.