

Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH) Regulation (EU) 2020/878

Product name: FOT Biocontrol

Revision date: 03-04-2023 (version 9.0)

Print date: 03-04-2023

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Registration no. CTGB(NL): 15145N

Identification of the substance or mixture: FOT Biocontrol

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

Preservative Industrial use

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor)

Vecom Marine B.V.

Mozartlaan 3 3144 NA Maassluis The Netherlands

Telephone: +31 (0) 10-5930210 Website: www.vecom-marine.com Email: sales@vecom-marine.com

1.4. Emergency telephone number

National Poisons Information Centre (NVIC): +31 (0)88-755-8000 (24 hour service) Only intended to inform professional emergency services in case of acute poisoning. See section 4 on first aid measures.

2. Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Met. Corr. 1 / H290 Corrosive to metals May be corrosive to metals.

Skin Corr. 1C / H314 Skin corrosion/irritation Causes severe skin burns and eye

damage.

Eye Dam. 1 / H318 Serious eye damage/eye irritation Causes serious eye damage.

Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

Aquatic Acute 1 / H400 Hazardous to the aquatic environment Very toxic to aquatic organisms.

Aquatic Chronic 1 / H410 Hazardous to the aquatic environment Very toxic to aquatic life with long lasting

effects.

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2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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







Danger

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe vapour.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye/face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

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 or doctor/ physician.

P391 Collect spillage.

Hazard components for labelling

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

Supplemental hazard information

not applicable

2.3. Other hazards

Contains no endocrine disruptor (EDC) at a concentration of >= 0.1 % Does not contain a PBT/vPvB substance in a concentration of >= 0.1 %

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3. Composition/information on ingredients

3.1. Substances

Not relevant (composition)

3.2. Mixtures

Description Biocide

Hazardous ingredients

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

EC No.	REACH No.	Weight-
CAS No	Designation	%
Index No.	Classification: // Remark	
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-	0.6-
613-167-00-5	isothiazol-3- one (3:1)	2.499999
	Acute Tox. 3 H301 / Acute Tox. 2 H310 / Acute Tox. 2 H330 / 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	
	Specific concentration limit (SCL): Skin Corr. 1C H314 >= 0.6 / Skin Irrit. 2 H315 >=	
	0.06 / Eye Dam. 1 H318 >= 0.6 / Eye Irrit. 2 H319 >= 0.06	
	/ Skin Sens. 1A H317 >= 0.0015	
	Acute toxicity estimate (ATE): ATE (dermal): 87 mg/kg bw / ATE (inhalation,	
	vapour): 0.16 mg/L	

Full text of classification: see section 16.

4. First aid measures

4.1. Description of first aid measures

General information

In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In all cases of doubt, or when symptoms persist, seek medicaladvice.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Donot use solvents or thinners. Consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical advice immediately.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2. Special hazards arising from the substance or mixture

Do not breathe gas/fumes/vapour/spray.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

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7. Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Use only with sufficient ventilation. Refer to chapter 8: Exposure controls / Personal protection.

Further information

Respiratory protection necessary at: aerosol or mist formation.

7.2. Conditions for safe storage including any incompatibilities

Technical measures and storage conditions

Keep/Store only in original container.

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO).

Further information on storage conditions

Take care of instructions on label. Protect from heat and direct sunlight. Protect from frost.

7.3. Specific end use(s)

No measures required.

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Not applicable

8.2. Exposure controls

Personal protection equipment

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values. Use only respiratory protection equipment with CE-symbol including four digit test number. Combination filtering device Filter type: ABEK

Hand protection

Wear protective gloves. Recommended glove articles according EN ISO 374. Recommendation for protection against the commonly occurring ingredients in the products: For short-term contact (e.g. splash guard): Suitable material: Nitriles, Butyl caoutchouc (butyl rubber), material thickness: >= 0.4 mm, Penetration time of glove material depending on intensity and duration of exposure to skin: >= 480 min. The exact break through time can be found out by the manufacturer of the protective gloves and has to be observed. The protective gloves should always be checked for their suitability for specific workplaces (e.g. mechanical resistance, product compatibility). Follow the glove manufacturer's instructions and information on how touse, store, care for and replace gloves. The protective gloves should be replaced immediately if they are damaged or the first signs of wear and tear.

Eye/face protection

Wear eye glasses with side protection according to EN 166.

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Body protection

Suitable protective clothing: Protective clothing. Type 6 DIN EN 13034

Protective measures

Avoid contact with eyes and skin.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution

Colour Yellow

Odour Characteristic
Odour threshold not applicable
Melting point/freezing point not applicable

Melting point/freezing point not applicable Initial boiling point and boiling range 100 °C

Flammability not applicable

Explosion limit

Lower explosion limit Not determined Upper explosion limit Not determined

Flash point >100 °C
Auto-ignition temperature 395 °C
Decomposition temperature not applicable

Decomposition temperature not applicable
pH at 20 °C 3.5 – 4.5 /1.0 weight-% PC-V-010
Viscosity at 20 °C Liquid

Water solubility at 20 °C 999

Partition coefficient (n-octanol/water) see section 12

Vapour pressure at 20 °C not applicable
Density at 20 °C 1.025 g/cm³

Relative vapour density not applicable Particle characteristics 1.025 g/cm² not applicable not applicable

9.2. Other information

No further relevant information available.

10. Stability and reactivity

10.1. Reactivity

Solubility

No information available.

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10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

No know hazardous reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

Alkalis (lyes), reducing agents, strong oxidizing agents, nucleophiles

10.6. Hazardous decomposition products

None if stored and used properly.

In the event of a fire, hazardous decomposition products can arise, e.g.: Nitrogen oxides (NOx), carbon monoxide (CO),sulfur dioxide, hydrogen chloride (HCI)

11. Toxicological information

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

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)oral, LD50, Rat 64 - 66 mg/kg

dermal, LD50, Rat

dermal, LD50, Rabbit: 87.12 mg/kg

inhalative (dust and mist), LC50, Rat: 0.169 mg/L (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Corrosive

Causes severe skin burns and eye damage.

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)Skin (4 h)

Skin (4 h)

Eyes

Respiratory or skin sensitisation

sensitising

May cause an allergic skin reaction.

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

STOT-single exposure; STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

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Based on available data, the classification criteria are not met.

Practical experience/human evidence

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

Endocrine disrupting properties

No further information is available.

12. Ecological information

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

Do not allow to enter into surface water or drains.

12.1 Toxicity

Very toxic to aquatic organisms

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

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 0.19 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0.16 mg/L (48 h)

Algae toxicity, ErC50, Skeletonema costatum: 0.0052 mg/L (48 h)

Long-term Ecotoxicity

Very toxic to aquatic life with long lasting effects.

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)Algae toxicity,

NOEC: 0.0004 mg/L Method: OECD 201

12.2 Persistence and degradability

Toxicological data is not available.

12.3 Bioaccumulative potential

Toxicological data is not available.

Bioconcentration factor (BCF)

Toxicological data is not available.

12.4. Mobility in soil

Toxicological data is not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

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12.7. Other adverse effects

No information available.

13. Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way.

List of proposed waste codes/waste designations in accordance with EWC

140603* other solvents and solvent mixtures

Appropriate disposal / Package

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

14. Transport information

14.1. UN number or ID number

UN 3265

14.2. UN proper shipping name

Land transport (ADR/RID): Corrosive liquid, acidic, organic, n.o.s.

(Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-

2H-isothiazol-3-one (3:1))

Sea transport (IMDG): CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-

2H-isothiazol-3-one (3:1))

Air transport (ICAO-TI / IATA-DGR): Corrosive liquid, acidic, organic, n.o.s.

(Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-

2H-isothiazol-3-one (3:1))

14.3. Transport hazard class(es)Class 8 corrosive substances

14.4. Packing group

14.5. Environmental hazards

Land transport (ADR/RID) ENVIRONMENTALLY HAZARDOUS

Marine pollutant p / Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-

Methyl-2H-isothiazol-3-one (3:1)

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^{*}Hazardous waste according to Directive 2008/98/EC (waste framework directive).



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14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 – 8

Further information

Land transport (ADR/RID)

Tunnel restriction code E

Sea transport (IMDG)

EmS-No. F-A, S-B

in packages <= 5 litres not restricted 2.10.2.7

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - code.

15. Regulatory information

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

EU legislation

Restrictions of occupation:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Regulation (EU) No. 528/2012 on biocides

biocidal product

biocide, active substance

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one 14.98 g/kg

and 2-methyl-2H-isothiazol-3- one (3:1)

Input 1-2.5 g/kg

Authorization number for biocidal products: PT 6

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 0,0

National regulations

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Other information

Full text of classification in section 3:

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Acute Tox. 3 / H301 Acute toxicity (oral) Toxic if swallowed.

Acute Tox. 2 / H310 Acute toxicity (dermal) Fatal in contact with skin.

Acute Tox. 2 / H330 Acute toxicity (inhalative) Fatal if inhaled.

Skin Corr. 1C / H314 Skin corrosion/irritation Causes severe skin burns and eye

damage.

Eye Dam. 1 / H318 Serious eye damage/eye irritation Causes serious eye damage.

Skin Sens. 1A / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

Aquatic Acute 1 / H400 Hazardous to the aquatic environment Very toxic to aquatic organisms.

Aquatic Chronic 1 / H410 Hazardous to the aquatic environment Very toxic to aquatic life with long lasting

effects.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

On basis of test data. Met. Corr. 1 Corrosive to metals Skin Corr. 1C Skin corrosion/irritation Calculation method. Eye Dam. 1 Serious eye damage/eye irritation Calculation method. Skin Sens. 1 Respiratory or skin sensitisation Calculation method. Aquatic Acute 1 Hazardous to the aquatic environment Calculation method. Aquatic Chronic 1 Hazardous to the aquatic environment Calculation method.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL Occupational Exposure Limit Value

BLV Biological Limit Value
CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging CMR Carcinogenic, Mutagenic and Reprotoxic

DIN German Institute for Standardization / German industrial standard

DNEL Derived No-Effect Level

EAKV European Waste Catalogue Directive

EC Effective Concentration EC European Community EN European Standard

IATA-DGR International Air Transport Association – Dangerous Goods Regulations

IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in

Bulk

ICAO-TI International Civil Aviation Organization Technical Instructions for the Safe Transport of

Dangerous Goods by Air

IMDG Code International Maritime Code for Dangerous Goods ISO International Organization for Standardization

LC Lethal Concentration

LD Lethal Dose

MARPOL Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OECD Organisation for Economic Cooperation and Development

PBT persistent, bioaccumulative, toxic PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

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UN United Nations

VOC Volatile Organic Compounds

vPvB very persistent and very bioaccumulative

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version

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