

Safety data sheet
according to 1907/2006/EC, Article 31, including amending
Regulation (EU) 2020/878

Printing date 22.11.2024

Version number 1.0

Revision: 22.11.2024

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

- **1.1 Product identifier**
- **Trade name:** Evocolit Green B
- **UFI:** WS10-Y05U-900E-XQYI
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 No further relevant information available.
- **Application of the substance / the mixture** Fire extinguishing agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

- **Further information obtainable from:** Sales
- **1.4 Emergency telephone number:**
 Posion center of the Charité Berlin: +49 30 19240
 E-Mail: giftnotruf@charite.de

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger

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· **Hazard-determining components of labelling:**

sodium octyl sulphate
sodium decyl sulphate

· **Hazard statements**

H315 Causes skin irritation.
H318 Causes serious eye damage.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P310 Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364 Take off contaminated clothing and wash it before reuse.

· **Additional information:**

EUH 208: Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2, H319 substance with a Community workplace exposure limit	≥10-≤25%
CAS: 107-21-1 EINECS: 203-473-3	ethanediol ⚠ Acute Tox. 4, H302 substance with a Community workplace exposure limit	≥2,5-≤10%
CAS: 142-31-4 EINECS: 205-535-5 Reg.nr.: 01-2119966154-35-XXXX	sodium octyl sulphate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	10%
CAS: 142-87-0 EINECS: 205-568-5 Reg.nr.: 01-2119970328-30-XXXX	sodium decyl sulphate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	≥3-≤10%
CAS: 2634-33-5 EINECS: 220-120-9 Reg.nr.: 01-2120761540-60	1,2-Benzisothiazol-3(2H)-one ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0,05 % substance with a Community workplace exposure limit	<0,05%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

anionic surfactants	≥5 - <15%
preservation agents (BENZISOTHIAZOLINONE)	

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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class (TRGS):** 12

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· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****112-34-5 2-(2-butoxyethoxy)ethanol**

AGW (Germany)	Long-term value: 67 mg/m ³ , 10 ppm 1,5(l);EU, DFG, Y, 11
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107-21-1 ethanediol

AGW (Germany)	Long-term value: 26 mg/m ³ , 10 ppm 2(l);DFG, EU, H, Y, 11
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2634-33-5 1,2-Benzisothiazol-3(2H)-one

MAK (Germany)	vgl. Abschn. IIb und Xc
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· **DNELs****112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	DNEL Long-term - oral, systemic effects	5 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects	83 mg/kg_bw/d (Worker)
		50 mg/kg_bw/d (general public)
Inhalative	DNEL long-term - inhalation local effects	67,5 mg/m ³ (Worker)
		40,5 mg/m ³ (general public)
	DNEL Long-term – inhalation, systemic effects	67,5 mg/m ³ /d (Worker)
		40,5 mg/m ³ /d (general public)
	DNEL Acute - inhalation, local effects	101,2 mg/m ³ (Worker)
		60,7 mg/m ³ (general public)

· **PNECs****112-34-5 2-(2-butoxyethoxy)ethanol**

PNEC Predicted No Effect Concentration Sea Water	0,11 mg/ltr (Aquatic organisms)
PNEC short term, fresh water	1,1 mg/l (Aquatic organisms)
PNEC short term, sewage plant	200 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	4,4 mg/kg (Aquatic organisms)
PNEC short term soil	0,32 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	0,44 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	11 mg/l (Aquatic organisms)
PNEC secondary poisoning	56 mg/kg KG/d (Aquatic organisms)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Appropriate engineering controls** No further data; see section 7.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

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· **Hand protection**

Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**

· Physical state	Fluid
· Colour:	clear to pale yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	<-32 °C
· Boiling point or initial boiling point and boiling range	Undetermined.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Decomposition temperature:	Not determined.
· pH at 20 °C	6-9
· Viscosity:	
· Kinematic viscosity at 20 °C	15-25 mm ² /s
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1,06-1,1 g/cm ³
· Relative density	Not determined.
· Density (@15°C)	Not determined.
· Vapour density	Not determined.

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· 9.2 Other information**· Appearance:****· Form:***Liquid***· Important information on protection of health and environment, and on safety.****· Ignition temperature:***Product is not selfigniting.***· Explosive properties:***Product does not present an explosion hazard.***· Solvent content:****· Organic solvents:***5-15 %***· VOC (EC)***5-15 %***· Solids content:***>0,0 %***· Change in condition****· Evaporation rate***Not determined.***· Information with regard to physical hazard classes****· Explosives***Void***· Flammable gases***Void***· Aerosols***Void***· Oxidising gases***Void***· Gases under pressure***Void***· Flammable liquids***Void***· Flammable solids***Void***· Self-reactive substances and mixtures***Void***· Pyrophoric liquids***Void***· Pyrophoric solids***Void***· Self-heating substances and mixtures***Void***· Substances and mixtures, which emit flammable gases in contact with water***Void***· Oxidising liquids***Void***· Oxidising solids***Void***· Organic peroxides***Void***· Corrosive to metals***Void***· Desensitised explosives***Void***SECTION 10: Stability and reactivity****· 10.1 Reactivity** *No further relevant information available.***· 10.2 Chemical stability****· Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.***· 10.3 Possibility of hazardous reactions** *No dangerous reactions known.***· 10.4 Conditions to avoid** *No further relevant information available.***· 10.5 Incompatible materials:** *No further relevant information available.***· 10.6 Hazardous decomposition products:** *No dangerous decomposition products known.***SECTION 11: Toxicological information****· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****· Acute toxicity***Based on available data, the classification criteria are not met.***2634-33-5 1,2-Benzisothiazol-3(2H)-one**

Oral Acute Toxicity Estimate of ingredient (ATE) oral 490 mg/kg

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· LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	65.000-975.000 mg/kg
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD50	2.410 mg/kg (mouse) 3.384 mg/kg (rat)
Dermal	LD50	2.764 mg/kg (rabbit)
107-21-1 ethanediol		
Oral	LD50	5.840 mg/kg (rat)
Dermal	LD50	9.530 mg/kg (rabbit)
Inhalative	LC50(4h) o. Zuordnung	1.995 mg/l (mud)
142-31-4 sodium octyl sulphate		
Oral	LD50	3.200 mg/kg (rat)
142-87-0 sodium decyl sulphate		
Oral	LD50	1.950 mg/kg (rat)
2634-33-5 1,2-Benzisothiazol-3(2H)-one		
Oral	LD50	532 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· Endocrine disrupting properties
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None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

112-34-5 2-(2-butoxyethoxy)ethanol	
LC50 (96h) mg/ltr.	1.300 mg/ltr (Fish)
EC50 (48h)	>100 mg/l (daphnia)
EC50 (96h) mg/ltr	>100 mg/ltr (algae)
107-21-1 ethanediol	
LC50 (96h) mg/ltr.	72.830 mg/ltr (Fish, minnows)
EC50 (48h)	100 mg/l (daphnia)
EC50 (96h) mg/ltr	6.500-13.000 mg/ltr (Pseudokirchneriella subcapitata)

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

LC50 (96h) mg/ltr.	1,6-2,18 mg/ltr (rainbow trout) (OECD 203)
EC50 (48h)	2,94-3,27 mg/l (Daphnia magna) (OECD 202)
EC50 (72h)	0,11 mg/l (Scenedesmus quadricauda) (OECD 201)
	0,11 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC10 (72h)	0,04 mg/ltr. (Scenedesmus quadricauda) (OECD 201)
NOEC	0,21 mg/l (rainbow trout) (OECD 215)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
- HP4 Irritant - skin irritation and eye damage
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN number or ID number | |
| · ADR, IMDG, IATA | not regulated |
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | not regulated |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | not regulated |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | not regulated |
| · 14.5 Environmental hazards: | Not applicable. |

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- | | |
|---|-----------------|
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | not regulated |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)**

None of the ingredients is listed.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 55
- **REGULATION (EU) 2019/1148**

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- National regulations:**

- Technical instructions (air):**

Class	Share in %
NK	15,0

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **VOC (EU)** 53-165 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Disclaimer**

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

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· Relevant phrases

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.
 H400 Very toxic to aquatic life.

· Department issuing SDS: Quality Management department**· Contact: MSDS authorized Person****· Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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