

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.10.2023

Version number 9.2 (replaces version 9.1)

Revision: 02.10.2023

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

- **1.1 Product identifier**
- **Trade name:** 233 Eurosol Contact
- **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** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Forbo Eurocol Deutschland GmbH  
August-Röbling-Straße 2  
99091 Erfurt  
GERMANY
- 
- **Tel.:** +49 361 730 41 0  
**Fax:** +49 (0)361 73041-92  
**E-Mail:** Elisabeth.Reinhardt@forbo.com  
[www.forbo-eurocol.de](http://www.forbo-eurocol.de)
- **Further information obtainable from:**  
Laboratory  
Elisabeth Reinhardt  
Elisabeth.Reinhardt@forbo.com
- **1.4 Emergency telephone number:**  
Poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia:  
+49-361-730730

### SECTION 2: Hazards identification

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



flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Eye Irrit. 2      H319 Causes serious eye irritation.  
STOT SE 3      H336 May cause drowsiness or dizziness.

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



- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*Kohlenwasserstoffe, C6-C7*  
*ethyl acetate*
- **Hazard statements**  
*H225 Highly flammable liquid and vapour.*  
*H319 Causes serious eye irritation.*  
*H336 May cause drowsiness or dizziness.*  
*H411 Toxic to aquatic life with long lasting effects.*
- **Precautionary statements**  
*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*  
*P233 Keep container tightly closed.*  
*P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*  
*P273 Avoid release to the environment.*  
*P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*  
*P391 Collect spillage.*  
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Additional information:**  
*EUH066 Repeated exposure may cause skin dryness or cracking.*  
*EUH 208: Contains Rosin. 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: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-XXXX	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥25-≤50%
	Kohlenwasserstoffe, C6-C7 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	≥25-≤50%
CAS: 128-37-0 EINECS: 204-881-4	Butylated hydroxytoluene Aquatic Chronic 2, H411	≥0.25-<2.5%
CAS: 8052-10-6 EINECS: 232-484-6	Rosin Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥0.25-<1%

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<b>· Regulation (EC) No 648/2004 on detergents / Labelling for contents</b>	
aliphatic hydrocarbons	≥30%

· **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**

· **After inhalation:**

In case of accident due to inhalation: Remove victim to fresh air and keep at rest. If symptoms occur or in case of doubt, consult a doctor.

· **After skin contact:**

After contact with skin, wash immediately with plenty of soap and water. Take off all contaminated clothing immediately and wash before wearing again. In case of skin irritation, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Call a doctor immediately. Rinse mouth with water and do not induce vomiting.

· **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:** Alcohol-resistant foam. Water spray. Carbon dioxide. Extinguishing powder.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **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:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** 10-30°C
- **Storage class (TRGS):** 3
- **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:**

**141-78-6 ethyl acetate**

WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm  
Long-term value: 734 mg/m<sup>3</sup>, 200 ppm

**128-37-0 Butylated hydroxytoluene**

WEL Long-term value: 10 mg/m<sup>3</sup>

· **DNELs**

**141-78-6 ethyl acetate**

Oral	DNEL Long-term - oral, systemic effects	4.5 mg/kg_bw/day (rat)
Dermal	DNEL Long-term – dermal, systemic effects	37 mg/kg_bw/d (rat)
Inhalative	DNEL long-term - inhalation local effects	734 mg/m <sup>3</sup> (rat)
	DNEL Long-term – inhalation, systemic effects	734 mg/m <sup>3</sup> /d (rat)
	DNEL Acute - inhalation, local effects	1,468 mg/m <sup>3</sup> (rat)
	DNEL Acute inhalation systemic effects	1,468 mg/m <sup>3</sup> (rat)

**Kohlenwasserstoffe, C6-C7**

Oral	DNEL Derived No Effects level	699 mg/kg (general public) (long term, systemic effect)
Dermal	DNEL Derived No Effects Level	773 mg/kg (Worker) (long term, systemic effect) 699 mg/kg (general public) (long term, systemic effect)
Inhalative	DNEL Derived No Effects Level	2,035 mg/m <sup>3</sup> (Worker) (long term, systemic effect)
		608 mg/m <sup>3</sup> (general public) (long term, systemic effect)

**128-37-0 Butylated hydroxytoluene**

Oral	DNEL Long-term - oral, systemic effects	0.25 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects	0.5 mg/kg_bw/d (Worker)
		0.25 mg/kg_bw/d (general public)
Inhalative	DNEL Long-term – inhalation, systemic effects	3.5 mg/m <sup>3</sup> /d (Worker)
		0.86 mg/m <sup>3</sup> /d (general public)

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· **PNECs****141-78-6 ethyl acetate**

PNEC short term, sea water	0.026 mg/l (Aquatic organisms)
PNEC short term, sewage plant	650 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	1.25 mg/kg (Aquatic organisms)
PNEC short term soil	0.24 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	0.125 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	1.65 mg/l (Aquatic organisms)
PNEC secondary poisoning	200 mg/kg KG/d (Aquatic organisms)

**128-37-0 Butylated hydroxytoluene**

PNEC short term, fresh water	0.000199 mg/l (Aquatic organisms)
PNEC short term, sea water	0.0000199 mg/l (Aquatic organisms)
PNEC short term, sewage plant	0.17 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	0.0996 mg/kg (Aquatic organisms)
PNEC short term soil	0.04769 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	0.00996 mg/kg (Aquatic organisms)
PNEC secondary poisoning	8.33 mg/kg KG/d

· **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 eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

· **Material of gloves**

Gloves made of the following material are suitable for continuous contact of max. 15 min: Butyl rubber (minimum thickness 0.7 mm). Gloves made of the following material are suitable for splash protection: Disposable nitrile gloves with long cuffs (min. thickness 0.12 mm).

· **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.

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## · 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:	Amber coloured
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	63 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	0.7 Vol %
· Flash point:	-20 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 40 °C	>20.5 mm <sup>2</sup> /s
· Viscosity at 100°C:	
· Dynamic at 20 °C:	3,000 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	110 hPa
· Density and/or relative density	
· Density at 20 °C:	0.84 g/cm <sup>3</sup>
· Relative density	Not determined.
· Density (@15°C)	Not determined.
· Vapour density	Not determined.

## · 9.2 Other information

## · Appearance:

· Form: Fluid

## · Important information on protection of health and environment, and on safety.

## · Ignition temperature:

Product is not selfigniting.

## · Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

## · Solvent content:

## · VOC (EC)

78.00 %

## · Solids content:

22.0 %

## · Change in condition

## · Evaporation rate

Not determined.

## · Information with regard to physical hazard classes

## · Explosives

Void

## · Flammable gases

Void

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· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	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.

#### · **LD/LC50 values relevant for classification:**

##### 141-78-6 ethyl acetate

Oral	LD50	5,600 mg/kg (rat) 5,620 mg/kg (rabbit)
Dermal	LD50	18,000 mg/kg (rat)
Inhalative	LC50 (4h)	154 mg/l (daphnia) 1,600 mg/l (rat)

##### Kohlenwasserstoffe, C6-C7

Oral	LD50	>5,840 mg/kg (rat)
Dermal	LD50	2,920 mg/kg (rabbit)
Inhalative	LC50 (4h)	>25 mg/l (rat)

##### 128-37-0 Butylated hydroxytoluene

Oral	LD50	>6,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

- **Serious eye damage/irritation** Causes serious eye irritation.
- **STOT-single exposure** May cause drowsiness or dizziness.

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## · 11.2 Information on other hazards

## · Endocrine disrupting properties

128-37-0 Butylated hydroxytoluene

List II

## SECTION 12: Ecological information

## · 12.1 Toxicity

## · Aquatic toxicity:

**141-78-6 ethyl acetate**

LC50 (96h) mg/ltr.	230 mg/ltr (rainbow trout)
EC50 (48h)	717 mg/l (daphnia)
EC50 (96h) mg/ltr	2,500 mg/ltr (Fish)
NOEC	2.4 mg/l /21d (Daphnia magna)
	75.6 mg/l /32d (Fish, minnows)
	1.28 mg/l (rat)

**Kohlenwasserstoffe, C6-C7**

EL50 (48h)	3 mg/l (Pseudokirchneriella subcapitata)
EL 50(72h)	30-100 mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	11.4 mg/l (rainbow trout)
NOELR (72h)	3 ml/l (Pseudokirchneriella subcapitata)

**128-37-0 Butylated hydroxytoluene**

EC50 (48h)	0.48 mg/l (Daphnia magna)
NOEC	0.23 mg/l /21d (Daphnia magna)
	0.053 mg/l /42d (Fish)

## · 12.2 Persistence and degradability

141-78-6	ethyl acetate	100 %
128-37-0	Butylated hydroxytoluene	4,5 (28d) %

· 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 For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects No further relevant information available.

· Remark: Toxic for fish

## · Additional ecological information:

## · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

## 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.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA**

UN1133

- **14.2 UN proper shipping name**
- **ADR**

1133 ADHESIVES, ENVIRONMENTALLY  
HAZARDOUS  
ADHESIVES, MARINE POLLUTANT  
ADHESIVES

- **IMDG**
- **IATA**

- **14.3 Transport hazard class(es)**

- **ADR, IMDG**



- **Class** 3 Flammable liquids.
- **Label** 3

- **IATA**



- **Class** 3 Flammable liquids.
- **Label** 3

- **14.4 Packing group**
- **ADR, IMDG, IATA**

III

- **14.5 Environmental hazards:**

Product contains environmentally hazardous substances:  
Hydrocarbons, C6-C7, isoalkanes, cyclic, <5% n-hexane

- **Marine pollutant:**

Symbol (fish and tree)

- **Special marking (ADR):**

Symbol (fish and tree)

- **14.6 Special precautions for user**

Warning: Flammable liquids.

- **Hazard identification number (Kemler code):**

-

- **EMS Number:**

F-E,S-D

- **Stowage Category**

B

- **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

- **Transport/Additional information:**

- **ADR**

- **Limited quantities (LQ)**

5L

- **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

- **Transport category**

3

- **Tunnel restriction code**

E

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1133 ADHESIVES, 3, III, ENVIRONMENTALLY HAZARDOUS

### 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.
- **Seveso category**  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **VOC (EU)** 661.4 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.
- **Relevant phrases**  
H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.
- **Department issuing SDS:** Quality Management department
- **Contact:**  
Laboratory  
Elisabeth Reinhardt  
Elisabeth.Reinhardt@forbo.com

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· **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 (UK REACH)*

*PNEC: Predicted No-Effect Concentration (UK REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Liq. 2: Flammable liquids – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*Asp. Tox. 1: Aspiration hazard – Category 1*

*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

· **\* Data compared to the previous version altered.**

GB