

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

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

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- **1.1 Product identifier** 600459
- **Trade name:** ECO assembly foam E-COLL
- **Article number:** 4317784524797
- **UFI:** U4VQ-GYMS-S80Q-G7J0
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

- **Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- **Application of the substance / the mixture** Polyurethane sealing

- **1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

E/D/E - Einkaufsbuero Deutscher Eisenhaendler GmbH

EDE Platz 1

D-42389 Wuppertal

Germany

Tel. +49 202 6096-0

e-mail: sdb@ede.de

- **Further information obtainable from:** Product safety department

- **1.4 Emergency telephone number:**

Poison Control Center Mainz - 24 hour emergency service – phone: +49 (0) 6131/19240

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**\* SECTION 2: Hazards identification**

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- **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The labelling of an aspiration hazard (Asp.Tox.1 H304) is not required for aerosol dispensers and containers with a sealed spray device (Regulation (EC) 1272/2008, Annex 1,1.3.3).

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

EU

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

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Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 1)

**· Hazard pictograms**

GHS02 GHS07

**· Signal word Danger****· Hazard-determining components of labelling:**

Reaction product of polypropylene glycol and polyadipate with toluene diisocyanate  
m-tolylidene diisocyanate

**· Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Additional information:**

As from 24 August 2023 adequate training is required before industrial or professional use.

Buildup of explosive mixtures possible without sufficient ventilation.

**· 2.3 Other hazards****· Results of PBT and vPvB assessment**

Contains PBT and vPvB substances  $\geq 0.1\%$ , assessed according to REACH Annex XIII.

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**\* SECTION 3: Composition/information on ingredients****· 3.2 Mixtures**

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

(Contd. on page 3)

EU

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Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 2)

<b>· Dangerous components:</b>		
EC number: 942-774-0	Reaction product of polypropylene glycol and polyadipate with toluene diisocyanate  Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane  Flam. Gas 1A, H220 Press. Gas (Comp.), H280	2.5-10%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-xxxx	dimethyl ether  Flam. Gas 1A, H220 Press. Gas (Comp.), H280	2.5-10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane  Flam. Gas 1A, H220 Press. Gas (Comp.), H280	0-10%
CAS: 6425-39-4 EINECS: 229-194-7 Reg.nr.: 01-2119969278-20-XXXX	2,2'-dimorpholinylidethyl ether  Eye Irrit. 2, H319	>1.5-<2.5%
CAS: 26471-62-5 EINECS: 247-722-4 Index number: 615-006-00-4 Reg.nr.: 01-2119454791-34-xxxx	m-tolylidene diisocyanate  Acute Tox. 2, H330  Resp. Sens. 1, H334; Carc. 2, H351  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412 EUH204 Specific concentration limit: Resp. Sens. 1; H334: C ≥0.1 %	>0.025-<0.1%

**· 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:**

Personal protection for the First Aider.  
Immediately remove any clothing soiled by the product.

**· After inhalation:**

Supply fresh air.  
Seek medical treatment in case of complaints.

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

(Contd. on page 4)

EU

**Safety data sheet**  
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Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 3)

- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Seek immediate medical advice.
- **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:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Pick up mechanically.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.

(Contd. on page 5)

EU

**Safety data sheet**  
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Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

(Contd. of page 4)

**SECTION 7: Handling and storage**

**· 7.1 Precautions for safe handling**

Open and handle receptacle with care.  
Store in cool, dry place in tightly closed receptacles.  
Use only in well ventilated areas.

**· Information about fire - and explosion protection:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

**· 7.2 Conditions for safe storage, including any incompatibilities**

**· Storage:**

**· Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.  
Maximum storage period: 1 year

**· Information about storage in one common storage facility:**

Store away from oxidising agents.  
Store away from foodstuffs.

**· Further information about storage conditions:** Protect from heat and direct sunlight.

**· 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:**

**CAS: 115-10-6 dimethyl ether**

IOELV | Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**· Additional information:**

The lists valid during the making were used as basis.

The usual precautionary measures when handling chemicals must be observed. do not eat and drink during work. Do not smoke while working. Wash hands before breaks and at the end of work.

(Contd. on page 6)

EU

**Safety data sheet**  
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Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 5)

- **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:**

Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing

**· Respiratory protection:**

The selection of respiratory protection masks (EN 14387) must be based on the known or expected concentrations, the dangers of the product and the occupational exposure limit values (Section 8.1) of the respective respiratory protection mask.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2

**· Hand protection**

Protective gloves

**· 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.

**· For the permanent contact gloves made of the following materials are suitable:**

Viton  
Recommended thickness of the material:  $\geq 0.4$  mm  
Penetration time (min.) :  $>30$  min.

**· As protection from splashes gloves made of the following materials are suitable:**

Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.1$  mm

**· Eye/face protection** Recommendation: safety glasses with side protection shield**· Body protection:** Light weight protective clothing**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Physical state**

Aerosol

**· Colour:**

White

**· Odour:**

Characteristic

**· Odour threshold:**

Not determined.

**· Melting point/freezing point:**

Undetermined.

(Contd. on page 7)

EU

**Safety data sheet**  
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Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 6)

· Boiling point or initial boiling point and boiling range	Not applicable, as aerosol.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable, as aerosol.
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Kinematic: 23 °C - 4 mm (ISO 2431)	
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	5,100 hPa
· Density and/or relative density	
· Density at 20 °C:	0.969 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Aerosol
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Not determined.
· Solvent separation test:	
· Organic solvents:	22.0 %
· VOC (EC) g/l	33.00 %
· VOCV (CH)	
· Change in condition	
· Drip point:	
· Oxidising properties	Not determined.
· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· 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

(Contd. on page 8)

EU

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 7)

· 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.

**· LD/LC50 values relevant for classification:****CAS: 115-10-6 dimethyl ether**

Inhalative | LC50/4h | 308 ppm (rat)

**CAS: 74-98-6 propane**Inhalative | LC50/4h | >20 mg/m<sup>3</sup> (rat)**CAS: 6425-39-4 2,2'-dimorpholinylidethyl ether**

Oral | LD50 | 2,020 mg/kg (rat)

Dermal | LD50 | 3,030 mg/kg (rabbit)

**CAS: 26471-62-5 m-tolylidene diisocyanate**

Inhalative | LC50/4h | 0.107 mg/L (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

(Contd. on page 9)

EU

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 8)

**· Serious eye damage/irritation**

Causes serious eye irritation.

**· Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**· 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**

None of the ingredients is listed.

**\* SECTION 12: Ecological information**

**· 12.1 Toxicity**

**· Aquatic toxicity:**

**CAS: 75-28-5 isobutane**

EC50 (48h) | 69.43 mg/L (daphnia)

**· 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**

**· Additional ecological information:**

**· General notes:**

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

(Contd. on page 10)

EU

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

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

(Contd. of page 9)

**SECTION 13: Disposal considerations****· 13.1 Waste treatment methods:**

Containers can be recycled if completely empty; if not, dispose product/containers as dangerous waste. Observe local regulations.

**· European waste catalogue**

16 05 04*	gases in pressure containers (including halons) containing hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances
15 01 04	metallic packaging

**\* SECTION 14: Transport information****· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN1950

**· 14.2 UN proper shipping name****· ADR**  
**· IMDG**  
**· IATA**UN1950 AEROSOLS  
AEROSOLS  
AEROSOLS, flammable**· 14.3 Transport hazard class(es)****· ADR****· Class**  
**· Label**2 F Gases.  
2.1**· IMDG, IATA****· Class**  
**· Label**2.1 Gases.  
2.1**· 14.4 Packing group****· ADR, IMDG, IATA**

Void

**· 14.5 Environmental hazards:****· Marine pollutant:**

No

**· 14.6 Special precautions for user**

Warning: Gases.

(Contd. on page 11)

EU

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 10)

- **EMS Number:**
- **Stowage Code**

F-D,S-U

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

- **Segregation Code**

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

Not applicable.

- **Transport/Additional information:**

- **ADR**

1L

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

- **Transport category**

2

- **Tunnel restriction code**

D

- **IMDG**

1L

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

- **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1

**\* SECTION 15: Regulatory information**

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07

- **Signal word Danger**

(Contd. on page 12)

EU

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 11)

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

Reaction product of polypropylene glycol and polyadipate with toluene diisocyanate  
m-tolylidene diisocyanate

**· Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Chemical safety assessment****· Named dangerous substances - ANNEX I**

Methanol

None of the ingredients is listed.

**· Seveso category P3a FLAMMABLE AEROSOLS****· Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t**· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 74**· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**· 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.

(Contd. on page 13)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

**Trade name: ECO assembly foam E-COLL**

(Contd. of page 12)

**· National regulations:****· Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

**· Other regulations, limitations and prohibitive regulations****· Substances of very high concern (SVHC) according to REACH, Article 57**

CAS: 85535-85-9	alkanes, C14-17, chloro
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**· Exposure scenario(s)**

Exposure scenario(s) of ingredients (if present) are available on request at:  
sdb@ede.de

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H412 Harmful to aquatic life with long lasting effects.  
EUH204 Contains isocyanates. May produce an allergic reaction.

**· Contact:** sdb@ede.de**· Date of previous version:** 21.02.2022**· Version number of previous version:** 301**· 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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Acute Tox. 2: Acute toxicity – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

(Contd. on page 14)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 22.07.2025

Version number 302 (replaces version 301)

Revision: 22.07.2025

---

**Trade name: ECO assembly foam E-COLL**

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(Contd. of page 13)

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· \* Data compared to the previous version altered.

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