

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

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

- 1.1 Product identifier 600271
- Trade name: PU assembly foam B3 E-COLL
- Article number: 4317784349499
- UFI: 8MUQ-FYGD-X80R-H61M
- 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 Sealant
- 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: Giftinformationszentrum Mainz – Tel.: +49 (6131) 19240

* SECTION 2: Hazards identification

- 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.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
Lact.	H362	May cause harm to breast-fed children.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 1)

· Hazard pictograms

GHS02 GHS07 GHS08 GHS09

· Signal word Danger**· Hazard-determining components of labelling:**diphenylmethanediisocyanate, isomers and homologues
alkanes, C14-17, chloro**· Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H362 May cause harm to breast-fed children.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

· 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.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
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:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
EUH204 Contains isocyanates. May produce an allergic reaction.

(Contd. on page 3)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 2)

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· PBT:	
CAS: 85535-85-9	alkanes, C14-17, chloro
· vPvB:	
CAS: 85535-85-9	alkanes, C14-17, chloro

*** SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

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

· Dangerous components:		
CAS: 85535-85-9 EINECS: 287-477-0 Index number: 602-095-00-X Reg.nr.: 01-2119519269-33	alkanes, C14-17, chloro ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Lact., H362 PBT; vPvB	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	10-<25%
CAS: 9016-87-9 Reg.nr.: 01-2119457024-46-xxxx	diphenylmethanediisocyanate, isomeres and homologues ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	5-<25%
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	2.5-10%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether ⚠ Flam. Gas 1A, H220 Press. Gas (Comp.), H280 EUH044	2.5-10%

· **SVHC**

CAS: 85535-85-9	alkanes, C14-17, chloro
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 3)

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** 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.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Seek immediate medical advice.
- **4.2 Most important symptoms and effects, both acute and delayed**
Corrosive effects.
Coughing
Asthma attacks
- **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:**
CO₂, 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.
- **5.3 Advice for firefighters**
- **Protective equipment:** 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.

(Contd. on page 5)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 4)

Ensure adequate ventilation

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

· 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** 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.

· Information about storage in one common storage facility: Store away from oxidising agents.**· Further information about storage conditions:** None.**· 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/m³, 1000 ppm**· Additional information:** The lists valid during the making were used as basis.

(Contd. on page 6)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 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:**
 - Keep away from foodstuffs, beverages and feed.
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:**
 - Use suitable respiratory protective device in case of insufficient ventilation.
 - Short term filter device:
Filter A/P2

· Hand protection

Protective gloves

· Material of gloves

Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 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.

· Eye/face protection

Tightly sealed goggles

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties**· 9.1 Information on basic physical and chemical properties****· General Information**

- **Colour:** Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Not applicable, as aerosol.
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.

(Contd. on page 7)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 6)

· 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:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	0.9 g/cm ³
· 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:	
· VOC (EC) %	18.1-25.5 %
· VOC (EC) g/l	176-247 g/l
· VOCV (CH)	18.1-25.5 %
· 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
· 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

(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 7)

- **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: 85535-85-9 alkanes, C14-17, chloro

Oral	LD50	>4,000 mg/kg (rat)
Dermal	LD50	>13,500 mg/kg /(24h) (rabbit)

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	10,000 mg/kg (rat) (Literatur)
Dermal	LD50	>5,000 mg/kg (rabbit) (Literatur)
Inhalative	LC50/4h	11 mg/m ³ (rat)

CAS: 74-98-6 propane

Inhalative	LC50/4h	>20 mg/m ³ (rat)
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- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.

(Contd. on page 9)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 8)

- **Reproductive toxicity**
May cause harm to breast-fed children.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):**
Persons already sensitised to isocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A).

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:**

CAS: 85535-85-9 alkanes, C14-17, chloro

vPvB:

CAS: 85535-85-9 alkanes, C14-17, chloro

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects****Remark:** Toxic for fish**Additional ecological information:****General notes:**

Toxic for aquatic organisms

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

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

(Contd. on page 10)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 9)

Also poisonous for fish and plankton in water bodies.

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
08 05 01*	waste isocyanates

*** SECTION 14: Transport information****14.1 UN number or ID number**

ADR, IMDG, IATA UN1950

14.2 UN proper shipping name

ADR UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS

IMDG, IATA

14.3 Transport hazard class(es)

ADR



Class 2.5F Gases.
Label 2.1

IMDG



Class 2 Gases.
Label 2.1

IATA



Class 2 Gases.
Label 2.1

14.4 Packing group

ADR, IMDG, IATA Void

(Contd. on page 11)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 10)

- **14.5 Environmental hazards:**
 - **Marine pollutant:** No
Symbol (fish and tree)
 - **Special marking (ADR):** Symbol (fish and tree)
 - **14.6 Special precautions for user** Warning: Gases.
 - **Hazard identification number (Kemler code):** -
 - **EMS Number:** F-D,S-U
 - **Stowage Code** SW1 Protected from sources of heat.
SW2 Clear of living quarters.
 - **Segregation Code** 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.
 - **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
 - **Transport/Additional information:**
-
- **ADR**
 - **Limited quantities (LQ)** 1L
 - **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
 - **Transport category** 2
 - **Tunnel restriction code** D
-
- **IMDG**
 - **Limited quantities (LQ)** 1L
 - **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
 - **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

* 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 GHS08 GHS09

(Contd. on page 12)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 11)

· **Signal word** Danger

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

diphenylmethanediisocyanate, isomers and homologues
alkanes, C14-17, chloro

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H362 May cause harm to breast-fed children.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

· **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.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
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.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** Methanol

· **Seveso category**

E1 Hazardous to the Aquatic Environment
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

· **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.

(Contd. on page 13)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 12)

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

Employment restrictions concerning pregnant and lactating women must be observed.

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.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH044 Risk of explosion if heated under confinement.
- EUH204 Contains isocyanates. May produce an allergic reaction.

· Department issuing SDS: Product safety department**· Contact:** sdb@ede.de**· Date of previous version:** 18.02.2022**· Version number of previous version:** 304**· 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)
- VOC: Volatile Organic Compounds (USA, EU)
- 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. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- 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
- Lact.: Reproductive toxicity – effects on or via lactation
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

(Contd. on page 14)

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

Printing date 22.04.2024

Version number 306 (replaces version 304)

Revision: 22.04.2024

Trade name: PU assembly foam B3 E-COLL

(Contd. of page 13)

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· * Data compared to the previous version altered.

EU
