Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.12.2018

Version number 7

Revision: 13.12.2018

SECTION 1: Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier · Trade name: TREMCO ES200 B · MSDS code: W-T-ES200B 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 Epoxy curing agent · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: tremco illbruck Ltd Coupland Road, Hindley Green, Wigan, WN2 4HT Tel: +44 (0) 1942251400, Fax: +44 (0) 1942251410 msds@tremco-illbruck.com · Further information obtainable from: tremco illbruck Ltd Coupland Road, Hindley Green, Wigan, WN2 4HT T: +44 (0) 1942251400, F: +44 (0) 1942251410 www.tremco-illbruck.co.uk, uk.info@tremco-illbruck.com · 1.4 Emergency telephone number: During office hours tel.: +44 (0) 1942251400. At all other times it is recommended to call NHS 111 (England/Wales/Scotland), 01 809 2166 (ROI), or otherwise to contact a doctor. **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute Tox. 4 H332 Harmful if inhaled. Skin Corr. 1C H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. 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. · 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 GHS07 GHS08 · Signal word Danger · Contains: 2,4,6-tris(dimethylaminomethyl)phenol ethylenediamine (Contd. on page 2) GB



Version number 7

Revision: 13.12.2018

-

Printing date 13.12.2018

Trade name: TREMCO ES200 B

	(Contd. of page 1)	
 Hazard statem 	ients	
H332 Harmful i	f inhaled.	
H314 Causes s	evere skin burns and eye damage.	
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H317 May caus	se an allergic skin reaction.	
 Precautionary 	statements	
P261	Avoid breathing vapours.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin		
	with water or shower.	
P304+P340		
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove conta		
	lenses, if present and easy to do. Continue rinsing.	
P312	Call a doctor if you feel unwell.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
 2.3 Other haza 	ırds	
 Results of PBT and vPvB assessment 		
· PBT: Not applicable.		
vDvD: Nationalizable		

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous components:				
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27-xxxx	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	5-<10%		
CAS: 90-72-2 EINECS: 202-013-9	2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	5-<10%		
CAS: 107-15-3 EINECS: 203-468-6 Reg.nr.: 01-2119480383-37-xxxx	ethylenediamine Flam. Liq. 3, H226; Acute Tox. 1, H330; Resp. Sens. 1, H334; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	1-<5%		

·SVHC

CAS: 107-15-3 ethylenediamine

• 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. Take affected persons out of danger area and lay down.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.



Version number 7

Printing date 13.12.2018

Trade name: TREMCO ES200 B

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

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

• 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

Causes severe skin burns and eye damage. Coughing

- · Information for doctor: No further relevant information available.
- · Hazards 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

• For safety reasons unsuitable extinguishing agents: Water with full jet

 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide (CO) Nitrogen oxides (NOx)
 5.2 Advise for firefiretore

- 5.3 Advice for firefighters
- **Protective equipment:** Mouth respiratory protective device. Wear self-contained respiratory protective device.
- Additional information 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.
- 6.2 Environmental precautions: 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 of 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.

(Contd. on page 4)

GB



Version number 7

Revision: 13.12.2018

Printing date 13.12.2018

Trade name: TREMCO ES200 B

(Contd. of page 3)

SECTION 7: Handling and storage 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin. The usual precautionary measures are to be adhered to when handling chemicals. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles. · Information about storage in one common storage facility: Do not store together with oxidising and acidic materials. Protect from heat and direct sunlight. · Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from humidity and water. Store receptacle in a well ventilated area. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. · Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · 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 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. Use only in well-ventilated areas. Do not breathe vapour. Filter A For further guidance, please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide". · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 5)



Revision: 13.12.2018

Printing date 13.12.2018

Version number 7

Trade name: TREMCO ES200 B

(Contd. of page 4)

· Material of gloves

Nitrile rubber, NBR Butyl rubber, BR

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 protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

SECTION 9: Physical and chemical properties		
 9.1 Information on basic physical a General Information Appearance: 	and chemical properties	
Form: Colour: • Odour: • Melting point/freezing point: • Initial boiling point and boiling ran	Liquid Brown Fish-like Undetermined. ge: Undetermined.	
· Flash point:	>100 °C	
· Ignition temperature:	435 °C	
· Explosive properties:	Product does not present an explosion hazard.	
· Density at 20 °C:	1.03 g/cm ³	
 Solubility in / Miscibility with water: 	Insoluble.	
 Viscosity: Dynamic at 20 °C: 	1500 mPas	
 Solvent content: VOC (EC) 9.2 Other information 	GEV-EMICODE EC1 No further relevant information available.	
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(Contd. on page 6)



Version number 7

Revision: 13.12.2018

Trade name: TREMCO ES200 B

Printing date 13.12.2018

(Contd. of page 5)

SECTION 10: Stability and reactivity

· 10.1 Reactivity Stable

- · 10.2 Chemical stability
- \cdot Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Reacts with strong acids.
- 10.4 Conditions to avoid Water / moisture.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide Nitrogen oxides

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if inhaled.

		evant for classification:
CAS: 90-7	72-2 2,4,6-1	tris(dimethylaminomethyl)phenol
Oral	LD50	2,169 mg/kg (rat)
	NOAEL	15 mg/kg (rat)
CAS: 90-7	72-2 2,4,6-	tris(dimethylaminomethyl)phenol
Oral	LD50	1,670 mg/kg (rat)
CAS: 107	-15-3 ethy	lenediamine
Oral	LD50	500 mg/kg (rat)
Dermal	LD50	730 mg/kg (rabbit)
Inhalative	LC50/4 h	0.3 mg/L (mouse)
· Primary i		
· Skin corr		
Causes se	evere skin	burns and eye damage.
· Serious e	ve damag	e/irritation

Strong caustic effect. Causes serious eye damage.

• Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

- \cdot CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- \cdot 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.

GB



Version number 7

Revision: 13.12.2018

Printing date 13.12.2018

Trade name: TREMCO ES200 B

(Contd. of page 6)

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 12.5 Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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.

Disposal must be made according to official regulations.

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

· European waste catalogue

08 04 09*waste adhesives and sealants containing organic solvents or other hazardous substancesHP 8Corrosive

· Uncleaned packaging:

· Recommendation:

Dispose of packaging according to regulations on the disposal of packagings. Packagings that may not be cleansed are to be disposed of in the same manner as the product. Non contaminated packagings may be recycled.

SECTION 14: Transport information · 14.1 UN-Number · ADR, ADN, IMDG, IATA · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA · Void · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class Void

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(Contd. of page 7)

Revision: 13.12.2018

Printing date 13.12.2018

Trade name: TREMCO ES200 B

Version number 7

 · 14.4 Packing group · ADR, IMDG, IATA 	Void
 · 14.5 Environmental hazards: · Marine pollutant: 	No
· 14.6 Special precautions for user	Not applicable.
 14.7 Transport in bulk according to Annex Marpol and the IBC Code 	t II of Not applicable.
· UN "Model Regulation":	Void
mixture "CLP" Regulation (EC) No 1272/2008 (OJ L 3 "REACH" Regulation (EC) No 1907/2006 (OL COMMISSION REGULATION (EU) 2015/830 HSE EH40/2005 Workplace Exposure Limits Guidance on the classification and assessme 2001/118/EC as regards the list of wastes 2008/98/EC on waste REGULATION (EC) No 1907/2006 ANNEX A	J L 396, 30.12.2006, p.1, with subsequent amendments). O of 28 May 2015. (as amended) ent of waste Technical Guidance WM3 (1st edition 2015)
 National regulations: 	
 Information about limitation of use: 	

Employment restrictions concerning juveniles must be observed. 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: 107-15-3 ethylenediamine

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

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

(Contd. on page 9)



Version number 7

Printing date 13.12.2018

Trade name:	TREMCO ES200 B

(Contd. of page 8) H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
· Department issuing SDS:
Prepared and verified in accordance with "REACH" Regulation (EC) No 1907/2006, Annex II, Part A,
0.2.3.
· Abbreviations and acronyms:
ADR: Accord européen sur le transport 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)
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. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 1: Acute toxicity – Category 1 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Corr. 10. 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
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
 * Data compared to the previous version altered.