

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.02.2021

Version number 5

Revision: 01.02.2021

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

· 1.1 Product identifier

· Trade name: **TREMCO CS900 B**

· MSDS code: W-T-CS900B

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

Restricted to professional users.

· Application of the substance / the mixture

Epoxy curing agent

Additional component

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Tremco CPG UK Ltd

tremco illbruck Ltd

Coupland Road, Hindley Green, Wigan, WN2 4HT

Tel: +44 (0) 1942251400, Fax: +44 (0) 1942251410

msds@cpg-europe.com

· Further information obtainable from:

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www.cpg-europe.com, info.uk@cpg-europe.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), your local GP/pharmacist (NI), 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 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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

Aquatic Chronic 3 H412 Harmful 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.

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- **Hazard pictograms**



GHS05 GHS07

- **Signal word** Danger

- **Contains:**

isophorone diamine

Benzyl alcohol

Reaction product of m-phenylenebis(methylamine) and 4,4'-Isopropylidenediphenol

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine)

- **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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.

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

- **Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC**

VOC 2004/42/CE (A / j) = <500 g/l

TREMCO CS900 B

= (ready to use, mixed product) <500 g/l

- **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 non-hazardous additions.

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Dangerous components:		
CAS: 100-51-6 EINECS: 202-859-9 Reg.nr.: 01-2119492630-38-xxxx	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	20-<30%
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32-xxxx	isophorone diamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	20-<30%
CAS: 9046-10-0 Reg.nr.: 01-2119557899-12-xxxx	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	20-<30%
CAS: 113930-69-1	Reaction product of m-phenylenebis(methylamine) and 4,4'-Isopropylidenediphenol Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Sens. 1, H317	20-<30%
CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light ; Kerosine - unspecified Asp. Tox. 1, H304	1-<5%
CAS: 161278-35-9	Formaldehyde, oligomeric reaction products with 3,3'-iminodi(propylamine) Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	1-<5%

· **SVHC -**· **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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out of danger area and lay down.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately rinse with water.

Seek immediate medical advice.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

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- **After swallowing:**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Seek immediate medical advice.
- **Information for doctor:** No further relevant information available.
- **4.2 Most important symptoms and effects, both acute and delayed**
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Harmful by inhalation.
Harmful if swallowed.
Headache
Dizziness
Nausea
- **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.
- **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 (NO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Mouth respiratory protective device.
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**
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.
Avoid contact with the eyes and skin.
Keep away from ignition sources.
- **6.2 Environmental precautions:**
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).

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Use neutralising agent.

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.

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.

When the product is mixed, it is recommended to be used in less than 20 minutes.

Do not eat, drink, smoke or sniff while working.

Do not breathe vapour.

The usual precautionary measures are to be adhered to when handling chemicals.

Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

Store in a cool location.

Provide ventilation for receptacles.

Information about storage in one common storage facility:

Store away from reducing agents.

Protect from heat and direct sunlight.

Further information about storage conditions:

Protect from frost.

Protect from humidity and water.

Store receptacle in a well ventilated area.

Storage temperature: +5°C to +25°C

Keep container tightly sealed.

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: 64742-47-8 Distillates (petroleum), hydrotreated light ; Kerosine - unspecified**

OEL	Short-term value: 1200 mg/m ³ , 165 ppm
	Long-term value: 200 mg/m ³

Additional information: The lists valid during the making were used as basis.

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8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

- Do not eat, drink, smoke or sniff while working.
- 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.
- Do not breathe vapour.
- Use skin protection cream for skin protection.

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.
- Filter A2/P2
- Use only in well-ventilated areas.
- For further guidance, please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide".

Protection of hands:

Protective gloves

Material of gloves

- Nitrile rubber, NBR
- Fluorocarbon rubber (Viton)
- Recommended thickness of the material: ≥ 0.5 mm
- 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

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Colour:	Yellowish
Odour:	Amine-like

pH-value at 20 °C:	11 Alkaline
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	205.4 °C

Flash point:	120 °C
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Explosive properties:	Product does not present an explosion hazard.
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Vapour pressure at 20 °C:	0.08 mmHg
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Density at 20 °C:	1.03 g/cm ³
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Solubility in / Miscibility with water:	Insoluble.
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Viscosity:	
Dynamic at 20 °C:	30 mPas

Solvent content:	
VOC (EU)	<500 g/l (mixed product)

9.2 Other information	No further relevant information available.
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SECTION 10: Stability and reactivity

· 10.1 Reactivity Stable

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Forms heat.

Exothermic reaction.

Reacts with strong acids and oxidising agents.

Reacts with peroxides.

· 10.4 Conditions to avoid

Water / moisture.

Protect from frost.

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

· 10.5 Incompatible materials:

May be corrosive to metals.

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Reacts with various metals.

Reacts with peroxides.

Reacts with acids.

Reacts with oxidising agents.

· 10.6 Hazardous decomposition products:Nitric acid (HNO₃)

Nitrogen oxides

Ammonia

Aldehyde

Carbon monoxide and carbon dioxide

Hydrocarbons

SECTION 11: Toxicological information**· 11.1 Information on toxicological effects****· Acute toxicity**

Harmful if swallowed or if inhaled.

· LD/LC50 values relevant for classification:**CAS: 100-51-6 Benzyl alcohol**

Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/8 h	1,000 ppmV (rat)

CAS: 2855-13-2 isophorone diamine

Oral	LD50	1,000 mg/kg (rat)
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· Primary irritant effect:**· Skin corrosion/irritation**

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

· Additional toxicological information: Causes burns.**· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****· 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.**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:** Harmful to aquatic life with long lasting effects.

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- **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.
- **Ecotoxicological effects:**
- **Remark:**
 Harmful to fish
 Harmful to aquatic organisms
- **Additional ecological information:**
- **General notes:**
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even small quantities leak into the ground.
- **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**
 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.
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP6	Acute Toxicity
HP8	Corrosive
HP13	Sensitising
HP14	Ecotoxic

- **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, IMDG, IATA** UN2735

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· 14.2 UN proper shipping name · ADR	2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction product of m-phenylenebis(methylamine) and 4,4'-Isopropylidenediphenol, ISOPHORONEDIAMINE) · IMDG, IATA POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Reaction product of m-phenylenebis(methylamine) and 4,4'-Isopropylidenediphenol, ISOPHORONEDIAMINE)
· 14.3 Transport hazard class(es) · ADR	8 (C7) Corrosive substances. 8
	
· Class · Label · IMDG, IATA	8 Corrosive substances. 8
	
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: Yes
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" SGG1-acids
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

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· 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

· IMDG**· 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

· UN "Model Regulation":
 UN 2735 POLYAMINES, LIQUID, CORROSIVE,
 N.O.S. (REACTION PRODUCT OF M-
 PHENYLENEBIS(METHYLAMINE) AND 4,4'-
 ISOPROPYLIDENEDIPHENOL,
 ISOPHORONEDIAMINE), 8, II
SECTION 15: Regulatory information**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

"CLP" Regulation (EC) No 1272/2008 (OJ L 353, 31.12.2008, p.1).

"REACH" Regulation (EC) No 1907/2006 (OJ L 396, 30.12.2006, p.1, with subsequent amendments).

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

HSE EH40/2005 Workplace Exposure Limits (as amended)

Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015)

 Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of
 emissions of volatile organic compounds due to the use of organic solvents in certain paints and
 varnishes and vehicle refinishing products and amending Directive 1999/13/EC

2001/118/EC as regards the list of wastes

2008/98/EC on waste

· Directive 2012/18/EU**· 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.

· National regulations:**· Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

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- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable.
- **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**

H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

- **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
 Acute Tox. 4: Acute toxicity - oral – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- *** Data compared to the previous version altered.**