

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

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

- **1.1 Product identifier**

- Trade name: **TREMCO CP720 B**

- **MSDS code:** W-T-CP720B

- **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**

Roof coating

Hardening agent/ 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 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.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **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**



GHS07 GHS08

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 1)

- **Signal word** Danger
- **Contains:**
4,4'-methylenediphenyl diisocyanate
diphenylmethanediisocyanate, isomers and homologues
methylenediphenyl diisocyanate
- **Hazard statements**
H332 Harmful if inhaled.
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.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
P260 Do not breathe vapours.
P280 Wear protective gloves / eye protection / face protection.
P284 In case of inadequate ventilation wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical attention if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- **Supplemental information:**
EUH204 Contains isocyanates. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

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

- **Dangerous components:**

CAS: 101-68-8 EINECS: 202-966-0	4,4'-methylenediphenyl diisocyanate 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	50-<75%
CAS: 9016-87-9	diphenylmethanediisocyanate, isomers 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	30-<50%
CAS: 26447-40-5 EINECS: 247-714-0	methylenediphenyl diisocyanate 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	10-<20%

- **SVHC -**
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

GB

(Contd. on page 3)

Trade name: TREMCO CP720 B

(Contd. of page 2)

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

In case of accident or if you feel unwell, seek medical advice (show this safety data sheet if possible).

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

After inhalation:

Supply fresh air or oxygen; call for doctor.

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

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

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

If symptoms persist consult doctor.

After swallowing:

Rinse out mouth with water.

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Harmful if inhaled.

Irritating to eyes, respiratory system and skin.

May cause damage to organs through prolonged or repeated exposure.

Prolonged skin contact may cause redness and irritation.

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: 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.

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Do not allow water to get inside the containers.

Danger of bursting.

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 3)

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Keep people at a distance and stay on the windward side.

Wear protective clothing.

- **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

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

- **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to Section 13.

- **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.

Do not handle until all safety precautions have been read and understood.

Do not breathe vapour.

Avoid contact with the eyes and skin.

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

Wear suitable protective clothing and gloves.

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

- **Information about fire - and explosion protection:** The product is not flammable.

- **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 locked up.

- **Information about storage in one common storage facility:** Protect from heat and direct sunlight.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Storage temperature: +15°C to 25°C

- **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: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

WEL	Short-term value: 0.07 mg/m ³
	Long-term value: 0.02 mg/m ³
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(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 4)

- **DNELs**

- **Long term effects**

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

Inhalative	industrial	0.05 mg/m ³ (workers) (systemic and local effects)
	consumer	0.025 mg/m ³ (general public) (systemic and local effects)

CAS: 26447-40-5 methylenediphenyl diisocyanate

Inhalative	industrial	0.05 mg/m ³ (workers) (systemic and local effects)
	consumer	0.025 mg/m ³ (general public) (systemic and local effects)

- **Short term effects**

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

Dermal	industrial	50 mg/kg/24h (workers) (systemic effects)
Inhalative	industrial	0.1 mg/m ³ (workers) (systemic and local effects)
	consumer	0.05 mg/m ³ (general public) (local effects)

CAS: 26447-40-5 methylenediphenyl diisocyanate

Oral	consumer	20 mg/kg (general public) (systemic effects)
Dermal	industrial	50 mg/kg (workers) (systemic effects)
	industrial	28.7 mg/cm ² (workers) (local effects)
Inhalative	consumer	25 mg/kg (general public) (systemic effects)
	industrial	0.1 mg/m ³ (workers) (systemic and local effects)
	consumer	0.05 mg/m ³ (general public) (systemic and local effects)

- **PNECs**

CAS: 26447-40-5 methylenediphenyl diisocyanate

PNEC	1 mg/L (fresh water)
	1 mg/L (sewage treatment plant)
	1 mg/L (soil)
	10 mg/L (sporadic release)
	0.1 mg/L (salt water)
PNEC	mg/kg dwt (sediment (salt water)) (exposure not expected)
	mg/kg dwt (sediment (fresh water)) (exposure not expected)

- **Additional information:**

The lists valid during the making were used as basis.
HSE EH40/2005 Workplace Exposure Limits (as amended)

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
The usual precautionary measures are to be adhered to when handling chemicals.
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.

(Contd. on page 6)

Trade name: TREMCO CP720 B

(Contd. of page 5)

Ensure that washing facilities are available at the work place.

• **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.

Take note of emission threshold.

Isocyanate

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

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

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

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

• **Material of gloves**

Nitrile rubber, NBR

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 and chemical properties**

• **General Information**

• **Appearance:**

Form:

Liquid

Colour:

Amber coloured

• **Odour:**

Mild

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 6)

· pH-value:	Not determined.
· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	>200 °C
· Flash point:	>177 °C
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Density at 20 °C:	1.19 g/cm ³
· Solubility in / Miscibility with water:	Fully miscible.
· Viscosity: Dynamic at 20 °C:	2,500 - 5,500 mPas
· Solvent content: VOC (EU)	1 g/L (mixed, A+B)
· 9.2 Other information	No further relevant information available.

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** Reacts with alcohols, amines, aqueous acids and alkalis.
- **10.4 Conditions to avoid**
Keep away from heat.
Water / moisture.
Danger of bursting.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

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

- **LD/LC50 values relevant for classification:**

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD50	>15,000 mg/kg (rat)
Inhalative	LC50/4 h	490 mg/L (rat)

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

Oral	LD50	>10,000 mg/kg (rat)
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(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 7)

Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	1.5 mg/L (rat)
CAS: 26447-40-5 methylenediphenyl diisocyanate		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LC50/1 h	1.5 mg/L (rat)

- **Primary irritant effect:**
- **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.
- **Additional toxicological information:** May be harmful if swallowed.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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.

SECTION 12: Ecological information• **12.1 Toxicity**• **Aquatic toxicity:****CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate**

LC50/96 h	>1,000 mg/L (brachydanio rerio)
LC50/24 h	>500 mg/L (brachydanio rerio)
EC50	>100 mg/L (daphnia magna)
EC50/24 h	>1,000 mg/L (daphnia magna)
EC50/72 h	>1,640 mg/L (desmodesmus subspicatus)

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

LC0/96 h	>1,000 mg/L (brachydanio rerio)
EC50/24 h	>1,000 mg/L (daphnia magna)

CAS: 26447-40-5 methylenediphenyl diisocyanate

LC50/96 h (static)	>1,000 mg/L (brachydanio rerio) (OESO 203)
EC50/24 h (static)	>1,000 mg/L (daphnia magna) (OESO 202)
EC50/72 h (static)	>1,640 mg/L (scenedesmus subspicatus) (OESO 201)

- **12.2 Persistence and degradability** No further relevant information available.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 8)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

NOEC/21 d	>10 mg/L (daphnia magna)
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CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

NOEC/21 d	>10 mg/L (daphnia magna)
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CAS: 26447-40-5 methylenediphenyl diisocyanate

LC50/14 d	>1,000 mg/kg (eisenia foetida) (OESO 207)
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NOEC/21 d	>10 mg/L (daphnia magna) (OESO 202)
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NOEC/14 d	>1,000 mg/kg (avea sativa) (OESO 208)
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	>1,000 mg/kg (lactuca sativa) (OESO 208)
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- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- **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.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 05 01*	waste isocyanates
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HP 4	Irritant - skin irritation and eye damage
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HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
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HP 7	Carcinogenic
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HP 13	Sensitising
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- **Uncleaned packaging:**

- **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, ADN, IMDG, IATA**

Void

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 9)

- | | |
|---|-----------------|
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class | Void |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: | Not applicable. |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| <ul style="list-style-type: none"> · UN "Model Regulation": | Void |

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)
2001/118/EC as regards the list of wastes
2008/98/EC on waste
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 56, 56a
- **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** 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**
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

(Contd. on page 11)

GB

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 16.10.2018

Version number 1

Revision: 26.09.2018

Trade name: TREMCO CP720 B

(Contd. of page 10)

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.

H373 May cause damage to organs through prolonged or repeated exposure.

· 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)

PNEC: Predicted No-Effect Concentration (REACH)

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 – 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

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

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

GB