

# Safety data sheet

## according to 1907/2006/EC, Article 31



Printing date 10.11.2016

Version number 3

Revision: 10.11.2016

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

- **1.1 Product identifier**
- **Trade name: TREMCO SF600 B**
- **MSDS code: W-T-SF600B**
- **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**  
Adhesives  
Additional component
- **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 please contact your national poisoning centre.

### 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 10.11.2016

Version number 3

Revision: 10.11.2016

**Trade name: TREMCO SF600 B**

(Contd. of page 1)

- **Signal word** Danger
- **Contains:**  
diphenylmethanediisocyanate, isomers and homologues
- **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**  
P261 Avoid breathing vapours.  
P280 Wear protective gloves / eye protection.  
P202 Do not handle until all safety precautions have been read and understood.  
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.
- **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:**

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	75- <100%
-----------	---	-----------

- **Additional information:**  
While curing the following substances are formed and released by a reaction with atmospheric humidity:  
Carbon dioxide  
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:**  
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.

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31



Printing date 10.11.2016

Version number 3

Revision: 10.11.2016

Trade name: TREMCO SF600 B

(Contd. of page 2)

- **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 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. 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  
Breathing difficulty  
Irritating to eyes, respiratory system and skin.  
May cause damage to organs through prolonged or repeated exposure.
- **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:**  
CO<sub>2</sub>, 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)  
Carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear self-contained respiratory protective device.
- **Additional information** Do not allow water to get inside the containers.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Ensure adequate ventilation  
Remove persons from danger area.
- **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 contaminated material as waste according to item 13.  
Ensure adequate ventilation.

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31



Printing date 10.11.2016

Version number 3

Revision: 10.11.2016

**Trade name: TREMCO SF600 B**

(Contd. of page 3)

Do not seal receptacles gas-tight.

- **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.

Take note of emission threshold.

Prevent formation of aerosols.

Avoid contact with the eyes and skin.

- **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.

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

- **Further information about storage conditions:**

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Store in a cool place.

Store in dry conditions.

Protect from humidity and water.

- **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:**

**9016-87-9 diphenylmethanediisocyanate, isomers and homologues**WEL Short-term value: 0.07 mg/m<sup>3</sup>Long-term value: 0.02 mg/m<sup>3</sup>

Sen; as -NCO

- **Additional information:**

The lists valid during the making were used as basis.

EH40/2005 Workplace Exposure Limits (2nd edition, 2011)

- **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.

Do not breathe vapour.

Avoid contact with the eyes and skin.

(Contd. on page 5)

Trade name: TREMCO SF600 B

(Contd. of page 4)

- **Respiratory protection:**

Use only in well-ventilated areas.

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 A

- **Protection of hands:**



Protective gloves

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

- **Material of gloves**

Nitrile rubber, NBR

Neoprene gloves

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.

Recommended thickness of the material:  $\geq 0.02$  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 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: Brown

- **Odour:** Rotten

- **Melting point/Melting range:** 10 °C

- **Boiling point/Boiling range:** >200 °C

- **Flash point:** >100 °C

- **Ignition temperature:** 530 °C

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapour pressure at 25 °C:** < 0.00001 hPa

- **Density at 20 °C:** 1.24 g/cm<sup>3</sup>

- **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

(Contd. on page 6)

Trade name: TREMCO SF600 B

(Contd. of page 5)

- **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**  
Danger of bursting.  
Reacts with strong acids.
- **10.4 Conditions to avoid**  
Water / moisture.  
Keep away from heat.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides

## SECTION 11: Toxicological information

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

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

### 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral	LD50	> 10000 mg/kg (rat)
Dermal	LD50	> 10000 mg/kg (rabbit)
Inhalative	LC50/4 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:**  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **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.

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31



Printing date 10.11.2016

Version number 3

Revision: 10.11.2016

Trade name: TREMCO SF600 B

(Contd. of page 6)

- **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:

#### 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

LC0/96 h	> 1000 mg/L (brachydanio rerio)
EC50/24 h	> 1000 mg/L (daphnia magna)
NOEC/21 d	> 10 mg/L (daphnia magna)

- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** Low potential for accumulating in organisms
- **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.  
Cured material may be disposed of as non-hazardous industrial waste.
- **Waste disposal key:** UK (WM3) : HP4 HP5 HP7 HP13

##### · European waste catalogue

08 05 01*	waste isocyanates
-----------	-------------------

- **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** Void

(Contd. on page 8)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31



Printing date 10.11.2016

Version number 3

Revision: 10.11.2016

Trade name: TREMCO SF600 B

(Contd. of page 7)

· **14.2 UN proper shipping name**  
 · **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**  
 · **ADR, ADN, IMDG, IATA**  
 · **Class** Void

· **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 II of Marpol and the IBC Code** Not applicable.

· **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.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **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.

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.

(Contd. on page 9)

GB

# Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 10.11.2016

Version number 3

Revision: 10.11.2016

**Trade name: TREMCO SF600 B**

(Contd. of page 8)

**· 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)
- 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

**· \* Data compared to the previous version altered.**

GB