

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 20.10.2015

Version number 6


Revision: 20.10.2015

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

- **1.1 Product identifier**
- **Trade name:** illbruck MT400
- **MSDS code:** A-I-MT400
- **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
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
tremco illbruck Coatings 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**

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Skin Irrit. 2	H315 Causes skin irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Aquatic Chronic 2	H411 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.
- **Hazard pictograms**  
  
GHS02 GHS07 GHS09
- **Signal word** Danger
- **Contains:**  
heptane  
ethyl acetate
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.

(Contd. on page 2)

GB

## Safety data sheet

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

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

**Trade name: illbruck MT400**

(Contd. of page 1)

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

**Supplemental information:**

EUH208 Contains zinc bis(dibutyldithiocarbamate), N-(3-(trimethoxysilyl)propyl)ethylenediamine, hydroabietyl alcohol. 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: 142-82-5 EINECS: 205-563-8 Reg.nr.: 01-2119475515-33-xxxx	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	10- <20%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1- <5%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene (mix) Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1- <5%
CAS: 1333-89-7 Reg.nr.: 01-2119980712-33-xxxx	hydroabietyl alcohol Skin Sens. 1, H317; Aquatic Chronic 4, H413	0.1- <1%
CAS: 1760-24-3 EINECS: 217-164-6 Reg.nr.: 01-2119970215-39-xxxx	N-(3-(trimethoxysilyl)propyl)ethylenediamine Eye Dam. 1, H318; Acute Tox. 4, H332; Skin Sens. 1, H317	0.1- <1%
CAS: 136-23-2 EINECS: 205-232-8 Reg.nr.: 01-2119535161-51-xxxx	zinc bis(dibutyldithiocarbamate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0.1- <1%

• **Additional information:** For the wording of the listed risk phrases refer to section 16.

GB

(Contd. on page 3)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

**Trade name: illbruck MT400**

(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.
- **After inhalation:**  
Supply fresh air.  
In case of unconsciousness place patient stably in side position for transportation.  
Seek immediate medical advice.
- **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:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Headache  
Dizziness  
Allergic reactions
- **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.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

**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.  
Keep away from ignition sources.  
Wear protective clothing.
- **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.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.

(Contd. on page 4)

## Safety data sheet

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

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

**Trade name: illbruck MT400**

(Contd. of page 3)

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.

#### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.

#### · 7.2 Conditions for safe storage, including any incompatibilities

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Store in a cool location.  
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 in cool, dry conditions in well sealed receptacles.  
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:

##### 142-82-5 heptane

WEL	Long-term value: 2085 mg/m <sup>3</sup> , 500 ppm
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##### 141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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##### 1330-20-7 xylene (mix)

WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
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##### · Ingredients with biological limit values:

##### 1330-20-7 xylene (mix)

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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#### · Additional information:

The lists valid during the making were used as basis.  
EH40/2005 Workplace Exposure Limits (2nd edition, 2011)

(Contd. on page 5)

GB

## Safety data sheet

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

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

**Trade name: illbruck MT400**

(Contd. of page 4)

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.  
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**  
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.  
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  
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:**

<b>Form:</b>	Pasty
<b>Colour:</b>	Light beige
  - **Odour:** Like aromatic solvents
  - **Boiling point/Boiling range:** 98 °C
- |                                |         |
|--------------------------------|---------|
| · <b>Flash point:</b>          | -4 °C   |
| · <b>Ignition temperature:</b> | >200 °C |

(Contd. on page 6)

GB

## Safety data sheet

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

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

**Trade name: illbruck MT400**

(Contd. of page 5)

- |  |   |
|--|---|
| <b>· Danger of explosion:</b>                    | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| <b>· Explosion limits:</b>                       |   |
| <b>Lower:</b>                                    | 1.2 Vol %   |
| <b>Upper:</b>                                    | 8.3 Vol %   |
| <b>· Density at 20 °C:</b>                       | 1.2 g/cm <sup>3</sup>   |
| <b>· Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.   |
| <b>· Viscosity:</b>                              |   |
| <b>Dynamic at 25 °C:</b>                         | 480000-608000 mPas  |
| <b>Kinematic at 25 °C:</b>                       | 400000-506666 mm <sup>2</sup> /s  |
| <b>· Solvent content:</b>                        |   |
| <b>VOC (EU)</b>                                  | 318 g/l   |
| <b>· 9.2 Other information</b>                   | 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 and stored according to specifications.  
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**  
Reacts with reducing agents.  
Reacts with oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Possible in traces.  
Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

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

### 142-82-5 heptane

Oral	LD50	2500 mg/kg (rat)
Dermal	LD50	2500 mg/kg (rabbit)
Inhalative	LC50/4 h	56 mg/L (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

(Contd. on page 7)

## Safety data sheet

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

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

Trade name: illbruck MT400

(Contd. of page 6)

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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**  
May cause drowsiness or dizziness.
- **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:

#### 142-82-5 heptane

EC50/48 h | 1.5 mg/L (daphnia magna)

LC50/24 h | 4 mg/L (carassius auratus)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **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.
- **Waste disposal key:** UK (WM3) : HP3 HP4 HP5 HP14

#### · European waste catalogue

08 04 09\* | waste adhesives and sealants containing organic solvents or other dangerous substances

- **Uncleaned packaging:**
- **Recommendation:**  
Dispose of packaging according to regulations on the disposal of packagings.

(Contd. on page 8)

GB



## Safety data sheet

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

Printing date 20.10.2015

Version number 6




Revision: 20.10.2015

**Trade name: illbruck MT400**

(Contd. of page 7)

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

<div><div>· 14.1 UN-Number</div><div>· ADR, IMDG, IATA</div></div>	UN1325
<div><div>· 14.2 UN proper shipping name</div><div>· ADR</div><div>· IMDG</div><div>· IATA</div></div>	1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (HEPTANES), ENVIRONMENTALLY HAZARDOUS FLAMMABLE SOLID, ORGANIC, N.O.S. (HEPTANES), MARINE POLLUTANT FLAMMABLE SOLID, ORGANIC, N.O.S. (HEPTANES)
<div><div>· 14.3 Transport hazard class(es)</div><div>· ADR, IMDG</div></div> <div><div></div></div>	<div><div>· Class</div><div>· Label</div></div> <div>4.1 Flammable solids, self-reactive substances and solid desensitised explosives. 4.1</div>
<div><div>· IATA</div></div> <div><div></div></div>	<div><div>· Class</div><div>· Label</div></div> <div>4.1 Flammable solids, self-reactive substances and solid desensitised explosives. 4.1</div>
<div><div>· 14.4 Packing group</div><div>· ADR, IMDG, IATA</div></div>	III
<div><div>· 14.5 Environmental hazards:</div><div>· Marine pollutant:</div><div>· Special marking (ADR):</div></div>	Yes Symbol (fish and tree) Symbol (fish and tree)
<div><div>· 14.6 Special precautions for user</div></div>	Warning: Flammable solids, self-reactive substances and solid desensitised explosives.
<div><div>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</div></div>	Not applicable.

(Contd. on page 9)

GB



## Safety data sheet

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

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

**Trade name: illbruck MT400**

(Contd. of page 8)

**· Transport/Additional information:**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | 5 kg<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| <ul style="list-style-type: none"> <li>· <b>Tunnel restriction code</b></li> <li>· <b>Remarks:</b></li> </ul>                                       | E<br>Class 4.1; ADR 2.2.41.1.1 / 1.2.1 / 2.3.4   |

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | 5 kg<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| <ul style="list-style-type: none"> <li>· <b>Remarks:</b></li> </ul>  | Class 4.1; IMDG 2.4.2.2.2.1  |

- |   |                             |
|---|-----------------------------|
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul> | Class 4.1; IATA 3.4.1.1.2.1 |
|---|-----------------------------|

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul> | UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (HEPTANES), 4.1, III, ENVIRONMENTALLY HAZARDOUS |
|---|--|

### 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).

"CHIP" SI 2009 No.716.

"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

#### · National regulations:

#### · 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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

(Contd. on page 10)

GB

## Safety data sheet

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

Printing date 20.10.2015

Version number 6

Revision: 20.10.2015

**Trade name: illbruck MT400**

(Contd. of page 9)

H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 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.  
 H413 May cause long lasting harmful effects to aquatic life.

• **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 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. 2: Flammable liquids, Hazard Category 2  
 Flam. Liq. 3: Flammable liquids, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

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