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

1.1 Product identifier

- Trade name: illbruck AT120

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

No further relevant information available.

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: tremco illbruck Ltd
- Coupland Road, Hindley Green, WIGAN, WN2 4HT
- T: +44 (0) 1942251400, F: +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

- Flam. Liq. 2 H225 Highly flammable liquid and vapour.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Dam. 1 H318 Causes serious eye damage.
- STOT SE 3 H336 May cause drowsiness or dizziness.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

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
- GHS05
- GHS07
- GHS08
- GHS09

Signal word Danger

Contains:
Alkanes, C7-10-iso-tetra-n-butoxytitanium

(Contd. on page 2)
49.4.3  ethylbenzene
toluene

· Hazard statements
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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.

| CAS: 90622-56-3 | Alkanes, C7-10-iso- | Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 |
| CAS: 1330-20-7 | xylene (mix) | Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 |
| CAS: 5593-70-4 | tetra-n-butoxytitanium | Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336 |
| CAS: 100-41-4 | ethylbenzene | Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332 |
| CAS: 108-88-3 | toluene | Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336 |

· 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.
  Take affected persons out into the fresh air.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
  Remove from the skin using a cloth or paper. Then clean with water and soap.
  If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then 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
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
Can form explosive gas-air mixtures.

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
- Keep away from ignition sources.
- Ensure adequate ventilation.
- Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
- Prevent from spreading (e.g. by damming-in or oil barriers).
- Keep contaminated washing water and dispose of appropriately.
- Do not allow to enter sewers/surface or ground water.

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.
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

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:

<table>
<thead>
<tr>
<th>CAS: 1330-20-7 xylene (mix)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 100-41-4 ethylbenzene</th>
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</thead>
<tbody>
<tr>
<td>WEL</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 108-88-3 toluene</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>CAS: 1330-20-7 xylene (mix)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMGV</td>
</tr>
<tr>
<td>Medium: urine</td>
</tr>
<tr>
<td>Sampling time: post shift</td>
</tr>
<tr>
<td>Parameter: methyl hippuric acid</td>
</tr>
</tbody>
</table>

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

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed. 
Do not eat, drink, smoke or sniff while working. 
Avoid contact with the eyes and skin. 
Do not inhale gases / fumes / aerosols. 
Immediately remove all soiled and contaminated clothing 
Wash hands before breaks and at the end of work.

- **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. 
  Not necessary if room is well-ventilated. 
  Filter AX 
  For further guidance, please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide".

- **Protection of hands:**
  - Protective gloves
  - Solvent resistant gloves

- **Material of gloves**
  - Nitrile rubber, NBR
  - Butyl rubber, BR
  - 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

---

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Colour: Colourless
    - Odour: Petrol-like
## Odour threshold:
Not determined.

## pH-value:
Not determined.

## Melting point/freezing point:
Undetermined.

## Initial boiling point and boiling range:
110 °C

## Flash point:
6 °C

## Flammability (solid, gas):
Not applicable.

## Ignition temperature:
> 200 °C

## Decomposition temperature:
Not determined.

## Auto-ignition temperature:
Product is not selfigniting.

## Explosive properties:
Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

## Explosion limits:
- **Lower:** 0.7 Vol %
- **Upper:** 8.3 Vol %

## Vapour pressure at 20 °C:
16.3 hPa

## Density at 20 °C:
0.75 g/cm³

## Solubility in / Miscibility with water:
Immiscible / difficult to mix.

## Partition coefficient: n-octanol/water:
Not determined.

## Solvent content:
- **VOC (EU):** 706.0 g/l
- **VOC (EC):** 94.13 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
No further relevant information available.

### 10.2 Chemical stability

### Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions
Forms explosive gas mixture with air.

### 10.4 Conditions to avoid
No further relevant information available.

### 10.5 Incompatible materials:
No further relevant information available.

### 10.6 Hazardous decomposition products:
None if stored according to specifications.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

### Acute toxicity
Based on available data, the classification criteria are not met.
49.4.3 LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>CAS: 90622-56-3 Alkanes, C7-10-iso-</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>&gt;10,000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>&gt;3,000 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalative LC50/4 h</td>
<td>21 mg/L (rat)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 1330-20-7 xylene (mix)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>4,300 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>2,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative LC50/4 h</td>
<td>27.6 mg/L (rat)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 5593-70-4 tetra-n-butoxytitanium</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>3,122 mg/kg (rat)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 100-41-4 ethylbenzene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>3,500 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>17,800 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 108-88-3 toluene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>5,000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>12,124 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative LC50/4 h</td>
<td>5,320 mg/L (mouse)</td>
</tr>
</tbody>
</table>

· Primary irritant effect:
  · Skin corrosion/irritation
    Causes skin irritation.
  · Serious eye damage/irritation
    Causes serious eye damage.
  · Respiratory or skin sensitisation
    Based on available data, the classification criteria are not met.
  · Additional toxicological information:
    Repeated exposure may cause skin dryness or cracking.
  · CMR effects (carcinogenicy, 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
    May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

<table>
<thead>
<tr>
<th>CAS: 1330-20-7 xylene (mix)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50/96 h</td>
<td>3.77 mg/L (fish)</td>
</tr>
<tr>
<td>EC50/48 h</td>
<td>7.4 mg/L (daphnia magna)</td>
</tr>
<tr>
<td>EC50/72 h</td>
<td>10 mg/L (skeletonema costatum)</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

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.

European waste catalogue

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 04 99</td>
<td>wastes not otherwise specified</td>
</tr>
<tr>
<td>HP3</td>
<td>Flammable</td>
</tr>
<tr>
<td>HP4</td>
<td>Irritant - skin irritation and eye damage</td>
</tr>
<tr>
<td>HP5</td>
<td>Specific Target Organ Toxicity (STOT)/Aspiration Toxicity</td>
</tr>
<tr>
<td>HP14</td>
<td>Ecotoxic</td>
</tr>
</tbody>
</table>

Uncleaned packaging:
Recommendation:
Empty packages totally (without drops or grains, cleaned with a spatula). Under observation of the relevant local respectively national regulations re-use or recycling is preferred.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA
UN1993

14.2 UN proper shipping name
ADR
1993 FLAMMABLE LIQUID, N.O.S. (Alkanes, C7-10-iso-), ENVIRONMENTALLY HAZARDOUS
IMDG
FLAMMABLE LIQUID, N.O.S. (Alkanes, C7-10-iso-), MARINE POLLUTANT
IATA
FLAMMABLE LIQUID, N.O.S. (Alkanes, C7-10-iso-)
### 14.3 Transport hazard class(es)

- **ADR**
  - Class: 3 (F1) Flammable liquids.
  - Label: 3

- **IMDG**
  - Class: 3 Flammable liquids.
  - Label: 3

- **IATA**
  - Class: 3 Flammable liquids.
  - Label: 3

### 14.4 Packing group

- **ADR, IMDG, IATA**
  - Packing group: II

### 14.5 Environmental hazards:

- **Product contains environmentally hazardous substances:** Alkanes, C7-10-iso-
  - **Marine pollutant:** Yes
  - **Special marking (ADR):** Symbol (fish and tree)

### 14.6 Special precautions for user

- **Warning:** Flammable liquids.
- **Danger code (Kemler):** 33
- **EMS Number:** F-E,S-E
- **Stowage Category:** B

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- **Not applicable.**

### Transport/Additional information:

- **ADR**
  - **Limited quantities (LQ):** 1L
  - **Excepted quantities (EQ):** Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - **Transport category:** 2
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
HSE EH40/2005 Workplace Exposure Limits (as amended)
2001/118/EC as regards the list of wastes
2008/98/EC on waste

Directive 2012/18/EU

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48

National regulations:

Information about limitation of use:
Observe employment restrictions.
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
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.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
Trade name: illbruck AT120

H335  May cause respiratory irritation.
H336  May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373  May cause damage to the hearing organs through prolonged or repeated exposure.
H411  Toxic 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
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

* Data compared to the previous version altered.