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

1.1 Product identifier

Trade name: illbruck CY360

MSDS code: A-I-CY360

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 Activator

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
tremco illbruck Productie B.V.
Vlietskade 1032, 4241 WC Arkel
T: +31 (0) 183568000, F: +31 (0) 183568100
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

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Acute Tox. 4 H332 Harmful if inhaled.

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

(Contd. on page 2)
Signal word: Danger

Contains:
Naphtha (petroleum), hydrotreated light
N,N-dimethyl-p-toluidine

Hazard statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a doctor if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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: Active substance with propellant

<table>
<thead>
<tr>
<th>Dangerous components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 74-98-6</td>
</tr>
<tr>
<td>EINECS: 200-827-9</td>
</tr>
<tr>
<td>Reg.nr.: 01-2119486944-21-xxxx</td>
</tr>
<tr>
<td>propane</td>
</tr>
<tr>
<td>Flam. Gas 1, H220</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

| CAS: 64742-49-0       |
| EINECS: 265-151-9     |
| Reg.nr.: 01-2119486944-32-xxxx |
| Naphtha (petroleum), hydrotreated light |
| Flam. Liq. 2, H225; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H336 |
|                         | 30-<50%        |

| CAS: 106-97-8         |
| EINECS: 203-448-7     |
| Reg.nr.: 01-2119474691-32-xxxx |
| butane, pure          |
| Flam. Gas 1, H220     |
|                         | 10-<20%        |

| CAS: 75-28-5          |
| EINECS: 200-857-2     |
| Reg.nr.: 01-2119485395-27-xxxx |
| isobutane             |
| Flam. Gas 1, H220     |
|                         | 1-<5%          |
Trade name: illbruck CY360

| CAS: 99-97-8 | EINECS: 202-805-4 | N,N-dimethyl-p-toluidine | Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Chronic 3, H412 | 0.1-%<1% |
| · 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:
     Take affected persons out of danger area and lay down.
     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.
   • After inhalation:
     Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
     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. Then 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
  Nausea
  Coughing
  Irritant to skin and mucous membranes.
• 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:
    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.
  Fumes can combine with air to form an explosive mixture.
• 5.3 Advice for firefighters
  • Protective equipment: Wear self-contained respiratory protective device.
SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation.
  Keep away from ignition sources.
- 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
  Ensure adequate ventilation.
  Pick up mechanically.
  or
  Absorb liquid components with liquid-binding material.
  Dispose of contaminated material as waste according to Section 13.
  Clean the affected area carefully; suitable cleaners are:
  Warm water
- 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 breathe vapour.
  Avoid contact with the eyes and skin.
- Information about fire - and explosion protection:
  Extremely flammable.
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
  Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e.
  electric lights. Do not pierce or burn, even after use.
  Do not spray onto a naked flame or any incandescent material.
- 7.2 Conditions for safe storage, including any incompatibilities
  Storage:
  Requirements to be met by storerooms and receptacles:
  Store in a cool location.
  Observe official regulations on storing packagings with pressurised containers.
  Information about storage in one common storage facility:
  Protect from heat and direct sunlight.
  Store away from foodstuffs.
  Further information about storage conditions:
  Keep container tightly sealed.
  Store in cool, dry conditions in well sealed receptacles.
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: 106-97-8 butane, pure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL Short-term value: 1810 mg/m³, 750 ppm</td>
</tr>
<tr>
<td>Long-term value: 1450 mg/m³, 600 ppm</td>
</tr>
<tr>
<td>Carc (if more than 0.1% of buta-1,3-diene)</td>
</tr>
</tbody>
</table>

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:
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.
- Do not eat, drink, smoke or sniff while working.

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.

Self-contained respiratory protective device.

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.

Material of gloves
- PVC 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. 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.
Trade name: illbruck CY360

- 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: Aerosol
    - Colour: Colourless
  - Odour: Characteristic
  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: -44.5 °C

- Flash point: -40 °C
- Ignition temperature: 450 - 580 °C
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - Explosion limits:
    - Lower: 1.8 Vol %
    - Upper: 9.5 Vol %
- Density at 20 °C: 0.79 g/cm³
- Solubility in / Miscibility with water: Insoluble.
- Viscosity:
  - Dynamic at 25 °C: < 1 cps

- 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 oxidising agents.
10.4 Conditions to avoid
Keep away from heat.
Keep away from sources of ignition - No smoking.
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition products:
Nitrogen oxides
Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information
11.1 Information on toxicological effects
Acute toxicity
Harmful if inhaled.

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light</td>
</tr>
</tbody>
</table>

| Oral  | LD50  | >2,000 mg/kg (rat) |
| Dermal| LD50  | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >5 mg/L (rat) |

Primary irritant effect:
Skin corrosion/irritation
Irritating effect.
Repeated exposure may cause skin dryness or cracking.
Causes skin irritation.
Serious eye damage/irritation Direct contact may cause temporary redness and discomfort.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:
Harmful if inhaled.
Irritating to respiratory system.
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:

CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light

EC50/48 h 36 mg/L (fish)
EC50/72 h 30 mg/L (pseudokirchneriella subcapit.)

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.

Ecotoxic effects:

Remark: Toxic for fish

Other information:
This product contains no substances in Annex I to Directive EC 1005/2009 concerning ozone depleting substances

Additional ecological information:

General notes:
Toxic for aquatic organisms
Do not allow product 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.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

European waste catalogue

14 06 03* other solvents and solvent mixtures
HP3 Flammable
HP4 Irritant - skin irritation and eye damage
HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14 Ecotoxic

Uncleaned packaging:

Recommendation:
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings may be recycled.

**SECTION 14: Transport information**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1 UN-Number</strong></td>
<td>UN1950</td>
</tr>
<tr>
<td><strong>14.2 UN proper shipping name</strong></td>
<td>1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS 1950 AEROSOLS</td>
</tr>
<tr>
<td><strong>14.3 Transport hazard class(es)</strong></td>
<td>Class 2 5F Gases. Label 2.1</td>
</tr>
<tr>
<td><strong>14.4 Packing group</strong></td>
<td>Void</td>
</tr>
<tr>
<td><strong>14.5 Environmental hazards:</strong></td>
<td>Marine pollutant: No Special marking (ADR): Symbol (fish and tree)</td>
</tr>
<tr>
<td><strong>14.6 Special precautions for user</strong></td>
<td>Warning: Gases. Hazard identification number (Kemler code): - EMS Number: F-D,S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:</td>
</tr>
</tbody>
</table>
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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: E0
    - Not permitted as Excepted Quantity
  - Transport category: 2
  - Tunnel restriction code: D
  - Remarks:
    - Special provisions: 190, 327, 344, 625 (3.3)
    - Special provisions for carriage: V14 (7.2.4); CV9, CV12 (7.5.11); S2 (8.5)

- **IMDG**
  - Limited quantities (LQ): 1L
  - Excepted quantities (EQ): Code: E0
    - Not permitted as Excepted Quantity
  - Remarks:
    - Special provisions: 63, 190, 277, 327, 344, 959 (3.3)

- **IATA**
  - Remarks:
    - Special provisions: A145, A167, A802 (4.4)

- **UN "Model Regulation"**:
  - UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

*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

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
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
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
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)
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. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity - oral – Category 3
Acute Tox. 4: Acute toxicity - inhalation – Category 4
Skin Irrit. 2: Skin corrosion/irritation – 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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.