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

1.1 Product identifier
- Trade name: illbruck AA290
- MSDS code: A-I-AA290-DIY

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 CPG Netherlands B.V.
  Vlietskade 1032, 4241 WC Arkel
  T: +31 (0) 183568000, F: +31 (0) 183568100
  msds@cpg-europe.com

- Further information obtainable from:
  Tremco CPG UK Ltd
  Coupland Road, Hindley Green, Wigan, WN2 4HT
  T: +44 (0) 1942251400, F: +44 (0) 1942251410
  www.cpg-europe.com, info.uk@cpg-europe.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), your local GP/pharmacist (NI), 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.
  Eye Irrit. 2 H319 Causes serious eye irritation.
  STOT SE 3 H336 May cause drowsiness or dizziness.

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

![Hazard pictograms]

- Signal word Danger
- Contains:
  acetone

(Contd. on page 2)
Trade name: illbruck AA290

- **Hazard statements**
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.

- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - 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.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P405 Store locked up.
  - 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.

- **Supplemental information:**
  - EUH066 Repeated exposure may cause skin dryness or cracking.

### Regulation (EC) No 648/2004 on detergents / Labelling for contents

<table>
<thead>
<tr>
<th>aliphatic hydrocarbons</th>
<th>≥30%</th>
</tr>
</thead>
</table>

- **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

#### Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 67-64-1</th>
<th>acetone</th>
<th>75-&lt;100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-662-2</td>
<td>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2219471330-49-xxxx</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 74-98-6</th>
<th>propane</th>
<th>10-&lt;20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-827-9</td>
<td>Flam. Gas 1A, H220; Press. Gas (Comp.), H280</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2119486944-21-xxxx</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 75-28-5</th>
<th>isobutane</th>
<th>5-&lt;10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-857-2</td>
<td>Flam. Gas 1A, H220; Press. Gas (Comp.), H280</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-2119485395-27-xxxx</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 106-97-8</th>
<th>butane, pure</th>
<th>5-&lt;10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 203-448-7</td>
<td>Flam. Gas 1A, H220; Press. Gas (Comp.), H280</td>
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</tr>
<tr>
<td>Reg.nr.: 01-2119474691-32-xxxx</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SVHC - (Contd. on page 3)
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; consult doctor in case of complaints.
After skin contact: Immediately wash with water and soap and rinse thoroughly.
If symptoms persist consult doctor.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Give small amounts of water to drink.
Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed
Vapours may cause drowsiness and dizziness.
Irritating to eyes.

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.
Carbon monoxide (CO)
Carbon dioxide (CO2)

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.
Avoid contact with the eyes and skin.
Ensure adequate ventilation.

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.
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.
Open and handle receptacle with care.
Avoid contact with the eyes and skin.
Wear suitable protective clothing and gloves.
Avoid breathing vapours/spray.
The usual precautionary measures are to be adhered to when handling chemicals.

Information about fire - and explosion protection:
Extremely flammable aerosol.
Pressurised container: May burst if heated.
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.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurised containers.
Information about storage in one common storage facility:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Do not seal receptacle gas tight.
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
Additional information about design of technical facilities: No further data; see item 7.
Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS: 67-64-1 acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 106-97-8 butane, pure</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

PNECs

<table>
<thead>
<tr>
<th>CAS: 67-64-1 acetone</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>PNEC</td>
</tr>
<tr>
<td></td>
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<tr>
<td></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. Avoid breathing dust/fume/gas/mist/vapours/spray. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Ensure that washing facilities are available at the work place. Wear suitable protective clothing and gloves.

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. Use only in well-ventilated areas. 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**
  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:** Solvent resistant protective clothing

### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th><strong>9.1 Information on basic physical and chemical properties</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Aerosol</td>
</tr>
<tr>
<td>Colour: According to product specification</td>
</tr>
<tr>
<td>Odour: Characteristic</td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
</tr>
<tr>
<td><strong>pH-value:</strong> Not determined.</td>
</tr>
<tr>
<td>Melting point/freezing point: Undetermined.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range: -44 °C</td>
</tr>
<tr>
<td>Flash point: -97 °C</td>
</tr>
<tr>
<td>Flammability (solid, gas): Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature: 365 °C</td>
</tr>
<tr>
<td>Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature: Product is not selfigniting.</td>
</tr>
<tr>
<td>Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</td>
</tr>
<tr>
<td>Explosion limits:</td>
</tr>
<tr>
<td>Lower: 1.7 Vol %</td>
</tr>
<tr>
<td>Upper: 13.0 Vol %</td>
</tr>
<tr>
<td>Vapour pressure at 20 °C: 3500 hPa</td>
</tr>
</tbody>
</table>

(Contd. of page 7)
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 No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

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 Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 67-64-1 acetone

<table>
<thead>
<tr>
<th>Route</th>
<th>LD/LC50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>5,800 mg/kg (rat) (OECD 401)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>20,000 mg/kg (rabbit) (OECD 402)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC0/4 h</td>
<td>16,000 ppm (rat)</td>
</tr>
<tr>
<td></td>
<td>LC50/4 h</td>
<td>76 mg/L (rat)</td>
</tr>
</tbody>
</table>

Primary irritant effect:
Skin corrosion/irritation Slight irritation possible.
Trade name: illbruck AA290

- **Serious eye damage/irritation**
  Causes serious eye irritation.
- **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** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

**12.1 Toxicity**

- **Aquatic toxicity:**
  - **CAS:** 67-64-1 acetone

<table>
<thead>
<tr>
<th>Parameter</th>
<th>LC50/96 h</th>
<th>EC50/48 h</th>
<th>IC50/8 d</th>
</tr>
</thead>
<tbody>
<tr>
<td>(oncorhynchus mykiss)</td>
<td>5,540 mg/L</td>
<td>6,100 mg/L</td>
<td>7,500 mg/L</td>
</tr>
<tr>
<td>(leuciscus idus)</td>
<td>7,500 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(daphnia magna)</td>
<td></td>
<td>6,100 mg/L</td>
<td></td>
</tr>
<tr>
<td>(scenedesmus quadricauda)</td>
<td></td>
<td>7,500 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

- **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.
- **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.

- **European waste catalogue**
  - 20 01 13* solvents
  - 15 01 04 metallic packaging
Trade name: illbruck AA290

- HP3 Flammable
- HP4 Irritant - skin irritation and eye damage
- HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, IMDG, IATA UN1950

- 14.2 UN proper shipping name
  - ADR 1950 AEROSOLS
  - IMDG AEROSOLS
  - IATA AEROSOLS, flammable

- 14.3 Transport hazard class(es)
  - ADR
    - Class 2.5F Gases.
    - Label 2.1
  - IMDG, IATA
    - Class 2.1
    - Label 2.1

- 14.4 Packing group
  - ADR, IMDG, IATA Void

- 14.5 Environmental hazards:
  - Marine pollutant: No

- 14.6 Special precautions for user
  - Hazard identification number (Kemler code): Warning: Gases.
  - 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
53.0 above 1 litre: Category B. For WASTE AEROSOLS:
Category C, Clear of living quarters.
SG69 For AEROSOLS with a maximum capacity of 1 litre:
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

- IMDG
  - Limited quantities (LQ) 1L
  - Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity

- UN "Model Regulation": UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  75/324/EEC relating to aerosol dispensers
  HSE EH40/2005 Workplace Exposure Limits (as amended)
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

(Contd. on page 11)
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.
  H280 Contains gas under pressure; may explode if heated.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.

· 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 relatif au transport international 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
  Flam. Gas 1A: Flammable gases – Category 1A
  Aerosol 1: Aerosols – Category 1
  Press. Gas (Comp.): Gases under pressure – Compressed gas
  Flam. Liq. 2: Flammable liquids – Category 2
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· * Data compared to the previous version altered.