

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

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

- **1.1 Product identifier**

- Trade name: illbruck AW413

- **MSDS code:** W-I-AW413

- **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**

Cleaning agent / Cleaner

Glass Cleaner

Window cleaner

- **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**

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

- **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

- **Signal word** Danger

- **Hazard statements**

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

(Contd. on page 2)

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

**Trade name: illbruck AW413**

(Contd. of page 1)

- **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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

- **Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	1-<5%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-xxxx	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-<5%
CAS: 68476-85-7 EINECS: 270-704-2 Reg.nr.: 01-2119485911-31-xxxx	Petroleum gases, liquefied Flam. Gas 1, H220; Press. Gas (Comp.), H280	1-<5%
CAS: 7632-00-0 EINECS: 231-555-9 Reg.nr.: 01-2119471836-27-xxxx	sodium nitrite Ox. Sol. 3, H272; Acute Tox. 3, H301; Aquatic Acute 1, H400; Eye Irrit. 2, H319	0.1-<1%

- **SVHC -**

- **Additional information:**

For the wording of the listed hazard phrases refer to section 16.

CAS 68476-85-7 (Note K)

### 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.

Immediately remove all soiled and contaminated clothing

If symptoms persist consult doctor.

(Contd. on page 3)

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

**Trade name: illbruck AW413**

(Contd. of page 2)

- **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**  
Irritating to eyes and skin.  
Vapours may cause drowsiness and dizziness.  
Vapours have narcotic effect.  
Nausea
- **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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Fumes can combine with air to form an explosive mixture.  
Crawling vapors can result in greater distance from the ignition.  
Pressurised container: May burst if heated.  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)
- **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**  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with the eyes and skin.  
Ensure adequate ventilation.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **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.  
Protect against electrostatic charges.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to Section 13.

(Contd. on page 4)

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

Trade name: illbruck AW413

(Contd. of page 3)

#### · 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.
- Do not eat, drink, smoke or sniff while working.

#### · 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

#### · Additional information about design of technical facilities: No further data; see item 7.

#### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

CAS: 67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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(Contd. on page 5)

GB

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

**Trade name: illbruck AW413**

(Contd. of page 4)

**CAS: 111-76-2 2-butoxyethanol**

WEL	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 123 mg/m <sup>3</sup> , 25 ppm Sk, BMGV
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**CAS: 68476-85-7 Petroleum gases, liquefied**

WEL	Short-term value: 2180 mg/m <sup>3</sup> , 1250 ppm Long-term value: 1750 mg/m <sup>3</sup> , 1000 ppm Carc (if LPG contains > 0.1% of buta-1.3-diene)
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· **Ingredients with biological limit values:****CAS: 111-76-2 2-butoxyethanol**

BMGV	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid
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· **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 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.

Avoid contact with the eyes and skin.

Wear suitable protective clothing and gloves.

Use skin protection cream for skin protection.

· **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.

Use suitable respiratory protective device in case of insufficient ventilation.

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

(Contd. on page 6)

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

**Trade name: illbruck AW413**

(Contd. of page 5)

Recommended thickness of the material:  $\geq 0.5$  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

EN 166

- **Body protection:** Solvent resistant protective clothing

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Aerosol

**Colour:** Clear

- **Odour:** Characteristic

- **Melting point/freezing point:** Undetermined.

- **Flash point:**  $<-40$  °C

- **Ignition temperature:** 410 - 580 °C

- **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:** 1.8 Vol %

**Upper:** 9.5 Vol %

- **Vapour pressure at 45 °C:** 5900 - 17600 hPa

- **Density at 20 °C:** 0.95 g/cm<sup>3</sup>

- **Vapour density at 15 °C:** 1.5 g/cm<sup>3</sup>

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

- **Solvent content:**
- VOC (EU)**  $\leq 58$  g/l

(Contd. on page 7)

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

Trade name: illbruck AW413

(Contd. of page 6)

VOC (EC)

≤ 6.1 %

· 9.2 Other information

No further relevant information available.

### 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** Reacts with oxidising agents.
- **10.4 Conditions to avoid**  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Protect from frost.  
Protect from heat and direct sunlight.
- **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: 67-63-0 propan-2-ol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/L (rat)

#### CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

#### CAS: 7632-00-0 sodium nitrite

Oral	LD50	85 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/irritation** Irritating to eyes.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.  
In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with the danger of central respiratory arrest.

(Contd. on page 8)

GB

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

Trade name: illbruck AW413

(Contd. of page 7)

- **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** Based on available data, the classification criteria are not met.
- **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: 67-63-0 propan-2-ol

LC50/96 h	9,640 mg/L (pimephales promelas)
LC50/48 h	>100 mg/L (leuciscus idus)
EC50/48 h	13,299 mg/L (daphnia magna)
EC50/72 h	>1,000 mg/L (desmodesmus subspicatus)

- **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.
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- **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

16 05 05	gases in pressure containers other than those mentioned in 16 05 04
HP3	Flammable

(Contd. on page 9)



## Safety data sheet

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

Printing date 29.10.2019

Version number 1



Revision: 29.10.2019

Trade name: illbruck AW413

(Contd. of page 8)

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

### SECTION 14: Transport information

· <b>14.1 UN-Number</b>	
· <b>ADR, IMDG, IATA</b>	UN1950
· <b>14.2 UN proper shipping name</b>	
· <b>ADR</b>	1950 AEROSOLS 1950 AEROSOLS
· <b>IMDG</b>	AEROSOLS
· <b>IATA</b>	AEROSOLS, flammable
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR</b>	
	
· <b>Class</b>	2.5F Gases.
· <b>Label</b>	2.1
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	2.1
· <b>Label</b>	2.1
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Gases.
· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-D,S-U
· <b>Segregation groups</b>	Nitrites and their mixtures
· <b>Stowage Code</b>	SW1 Protected from sources of heat. SW2 Clear of living quarters.
· <b>Segregation Code</b>	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.

(Contd. on page 10)

GB

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

**Trade name: illbruck AW413**

(Contd. of page 9)

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**

"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.

HSE EH40/2005 Workplace Exposure Limits (as amended)

Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015)

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** 150 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **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.

(Contd. on page 11)

## Safety data sheet

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

**Trade name: illbruck AW413**

(Contd. of page 10)

- **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**

Note K The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8)

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H272 May intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

- **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. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Ox. Sol. 3: Oxidizing solids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

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

(Contd. on page 12)

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

Printing date 29.10.2019

Version number 1

Revision: 29.10.2019

**Trade name: illbruck AW413**

(Contd. of page 11)

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

GB