Bacto Clean Liquid 500ml

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

1.1. Product identifier

Trade name/designation:

Bacto Clean Liquid 500ml

Article No.:
T463050

UFI:
FMCM-8GJ2-03K9-WJ99

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

Use of the substance/mixture:
skin disinfection, hand disinfection

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07
Exclamation mark



GHS02
Flame

Signal word: Danger

Hazard components for labelling:
propan-2-ol

Hazard statements for physical hazards	
H225	Highly flammable liquid and vapour.

Hazard statements for health hazards	
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Supplemental hazard information: none

Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Precautionary statements Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards
No data available

SECTION 3: Composition/information on ingredients

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3.2. Mixtures
Description:
Alcoholic solution

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	**propan-2-ol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) > 20 mg/L	50 – 100 weight-%
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH No.: 01-2119457610-43	**ethanol** Flam. Liq. 2 (H225) Danger **Acute Toxicity Estimate** ATE (oral) 10,470 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 20 mg/L	≥ 2.5 – < 10 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Remove/Take off immediately all contaminated clothing.

Following inhalation:
Fresh air supply, consult a doctor in case of complaints.

In case of skin contact:
Wash with plenty of water and soap. Consult a doctor if skin irritation persists.

After eye contact:
Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:
Rinse mouth. Drink plenty of water. If swallowed Seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Headache Dizziness Dizziness Unconsciousness

4.3. Indication of any immediate medical attention and special treatment needed

May cause drowsiness or dizziness.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Carbon dioxide (CO2) Extinguishing powder Water spray jet Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media:
Water in full jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:
Carbon monoxide (CO) Carbon dioxide (CO2) May form explosive gas-air mixtures.

5.3. Advice for firefighters

Protective equipment Wear self-contained breathing apparatus.

5.4. Additional information

Cool endangered containers with water spray. Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations. If possible, remove containers from the danger zone.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Wear protective equipment. Keep unprotected persons away. Provide adequate ventilation. Remove all sources of ignition. Avoid contact with eyes. Use respiratory protection when exposed to vapours/dust/aerosol.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Suppress gases/vapours/mists with water spray jet. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information:

Provide adequate ventilation. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Dispose of the ingested material in accordance with the regulations.

6.4. Reference to other sections

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Ensure good ventilation/extraction at the workplace. Ensure good room ventilation also in the floor area (vapours are heavier than air). Use only in well-ventilated areas. Avoid contact with eyes. Avoid prolonged/repeated skin contact. Do not breathe gas/fumes/vapour/spray. Ensure compliance with the occupational exposure limit value(s) (OEL) and/or other limit values

Fire prevent measures:

Protect from heat and direct sunlight.. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Vapours can form explosive mixtures with air. Flammable mixtures may form in the empty container

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep/Store only in original container. Vorschriften zur Lagerung brennbare Flüssigkeiten beachten.. Observe water regulations.

Hints on storage assembly:

Keep away from food, drink and animal feed. Store separately from oxidising agent.

Storage class (TRGS 510, Germany): 3 – Flammable liquids

Further information on storage conditions:

Store in a well-ventilated place. Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight. Store and transport upright. Betriebssicherheitsverordnung (BetrSichV) flammable liquids

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m³)
MAK (AT)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Safety goggles with side protection Eye glasses EN 166

Skin protection:

Use protective gloves in case of prolonged contact. To avoid skin problems, gloves should be worn only as much as necessary. Check the tightness of the glove before each re-use. The glove material must be impermeable and resistant to the product / substance / preparation. Due to the lack of tests, no recommendation can be given for the glove material for the product / the preparation / the chemical mixture Selection of glove material considering breakthrough times, permeation rates and degradation. Glove material: The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
Permeation time (maximum wear duration): The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.
Body protection: Protective clothing Personal protective equipment must be selected depending on the activity and possible exposure.

Respiratory protection:

Respiratory protection in case of insufficient ventilation. No special measures are normally required if the occupational exposure limit value(s) (OEL) and other limit values are safely complied with at all times. Recommended filter device for short-term use: Gas filter device according to EN 14387 type A (organic gas/vapours, boiling point > 65 °C) - identification colour brown

Other protection measures:

General protective and hygienic measures: Keep away from food, drink and animal feed. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes. Avoid prolonged/repeated skin contact.. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when using this product.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: colourless
Odour: Isopropanol
flammability: Yes

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*No data available*		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	> 78 °C		
Flash point	< 23 °C		
Evaporation rate	*No data available*		
Auto-ignition temperature	400 °C		
Upper/lower flammability or explosive limits	2 – 15 Vol-%		② Not oxidising.
Vapour pressure	48 hPa	20 °C	
Vapour density	*No data available*		
Density	0.87 g/cm³		
Bulk density	*not applicable*		
Water solubility			② completely miscible
Dynamic viscosity	*No data available*		

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Parameter	Value	at °C	① Method ② Remark
Kinematic viscosity	*No data available*		

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
See section 10.3

10.2. Chemical stability
Thermal decomposition / Conditions to avoid Keep away from sources of ignition - No smoking. Take action to prevent static discharges. none Zersetzung BEI bestimmungsgemäßer Lagerung und Handling

10.3. Possibility of hazardous reactions
development of Gases/vapours, flammable. Flammable/explosive vapour-air mixtures may be formed. Uncleaned empty containers may contain product gases which form explosive mixtures with air.

10.4. Conditions to avoid
No further relevant information available.

10.5. Incompatible materials
strong oxidants

10.6. Hazardous decomposition products
Carbon monoxide (CO) Carbon dioxide (CO2)

SECTION 11: Toxicological information

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11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L 6 h (Rat)
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
ATE (oral): 10,470 mg/kg
LD_{50} oral: >2,000 mg/kg (Rat) IUCLID
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L (Rat) RTECS

Acute oral toxicity:
No data available

Acute dermal toxicity:
No data available

Acute inhalation toxicity:
No data available

Skin corrosion/irritation:
Prolonged or repeated skin contact can lead to skin defatting and consequently to skin irritation.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

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.

Additional information:
Based on the calculation method of Regulation (EC) No 1272/2008 (CLP/GHS), the product presents the following hazards: Eye Irrit. 2

11.2. Information on other hazards

Endocrine disrupting properties:
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

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12.1. Toxicity

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC_{50}: >1,000 mg/L 4 d (fish)
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: 9,714 mg/L 1 d (Daphnia magna)
EC_{50}: >1,000 mg/L 2 d (crustaceans)
EC_{50}: >100 mg/L (Algae/water plant, Bacteria)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
LOEC: 1,000 mg/L (Alge)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LC_{50}: >1,000 mg/L 4 d (fish)
LC_{50}: =11,200 mg/L 1 d
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: =275 mg/L 3 d
NOEC: =9.6 mg/L (crustaceans, Ceriodaphnia dubia)
ErC_{50}: >100 mg/L
LC_{50}: 8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe))
EC_{50}: 6,500 mg/L (Algae/water plant, Pseudomonas putida)
NOEC: 250 mg/L (fish, Danio rerio)
ErC_{50}: 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
ErC_{50}: =275 mg/L 3 d (Chlorella vulgaris)
NOEC: 150 mg/L 4 d (fish, Daphnia magna)

Additional ecotoxicological information:
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. water hazard class 1 Self-classification according to AwSV (substance).

12.2. Persistence and degradability

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).

ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).

Biodegradation:
Readily biodegradable (according to OECD criteria).

Additional information:
No further relevant information available.

12.3. Bioaccumulative potential

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Log K_{OW}: 0.05
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Log K_{OW}: -0.31

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Results of PBT and vPvB assessment: —
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties
No data available

12.7. Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Must not be disposed of together with household waste. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

Remark:
The waste code number according to the List of Wastes Ordinance (AVV) depends on the waste producer and can therefore be different for a product. The waste code number must therefore be determined separately by each waste producer.

Waste code packaging

Remark:
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options
Appropriate disposal / Product:
Dispose of waste according to applicable legislation.

Appropriate disposal / Package:
Dispose of waste according to applicable legislation.

Other disposal recommendations:
Dispose of waste according to applicable legislation.

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1987	No dangerous good in sense of these transport regulations.	UN 1987	UN 1987
14.2. UN proper shipping name			
UN1987 ALKOHOLE, N.A.G. (ISOPROPANOL), SONDERVORSCHRIFT 640D	No dangerous good in sense of these transport regulations.	ALCOHOLS, N.O.S. (ISOPROPANOL)	ALCOHOLS, N.O.S. (ISOPROPANOL)
* **14.3. Transport hazard class(es)**			
 3	not relevant	 3	 3
14.4. Packing group			
II	not relevant	II	II
14.5. Environmental hazards			
No data available	not relevant	No data available	No data available
14.6. Special precautions for user			
Special Provisions: Achtung: Entzündbare flüssige Stoffe **Limited quantity (LQ):** 1L **Hazard identification number (Kemler No.):** 33 **Classification code:** - **Tunnel restriction code:** (D/E)	not relevant	**Special Provisions:** Achtung: Entzündbare flüssige Stoffe **Limited quantity (LQ):** 1L **EmS-No.:** F-E,S-D	**Special Provisions:** Achtung: Entzündbare flüssige Stoffe

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 66 Vol-%

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

* 16.1. Indication of changes

3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008

12.1.	Toxicity
14.3.	Transport hazard class(es)
15.3.	Additional information
16.1.	Indication of changes
16.6.	Training advice

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Threshold Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform Chemical Information Database
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

*
16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.