

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## BLQ 1800

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

#### 1.1. Product identifier

Trade name/designation:

BLQ 1800

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

Use of the substance/mixture:

Evaporation liquid

Relevant identified uses:

**Life cycle stage [LCS]**

**PW:** Widespread use by professional workers

**Process categories [PROC]**

**PROC 4:** Chemical production where opportunity for exposure arises

**Environmental release categories [ERC]**

**ERC 4:** Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**MIG-O-MAT Mikrofügetechnik GmbH**

Werksstraße 20

57299 Burbach

**Telephone:** +49 (0) 2736 4154 0

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TÜV SÜD Industrie Service GmbH - Environmental Service REACH - Westendstraße 199 - 80686 Munich - Germany +49 (0) 89 5791 3031

#### 1.4. Emergency telephone number

Antipoison Center Munich , 24h: +49 (0) 89 19240

### 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 ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	On basis of test data.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Minimum classification.
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	Minimum classification.

#### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark

**Signal word:** Danger

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### 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 (EU): -

#### Precautionary statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P271 Use only outdoors or in a well-ventilated area.

P280.6 Wear eye protection/face protection.

#### Precautionary statements Response

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

#### Adverse physicochemical effects:

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

#### Adverse human health effects and symptoms:

No information available.

#### Adverse environmental effects:

No information available.


#### Other adverse effects:

No information available.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### 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	propan-2-ol STOT SE 3, Flam. Liq. 2, Eye Irrit. 2   <b>Danger</b> H225-H319-H336	> 85 - < 95 Wt %
CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119487297-23	ethanol Flam. Liq. 2  <b>Danger</b> H225	> 5 - < 15 Wt %

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 contaminated clothing immediately and dispose of safely.

#### Following inhalation:

Provide fresh air.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

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### After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

### After ingestion:

Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of water.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

No information available.

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

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>)

Water spray

alcohol resistant foam

Extinguishing powder

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Hazardous combustion products  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Wear full chemical protective clothing.

### 5.4. Additional information

Beware of reignition.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Wear personal protection equipment.

Keep unprotected people away and stay on the upwind side.

##### Emergency procedures:

Remove all sources of ignition. Provide adequate ventilation.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Chemical protection clothing

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Ventilate affected area.

### 6.4. Reference to other sections

No data available

### 6.5. Additional information

See protective measures under point 7 and 8.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

Use only in well-ventilated areas.

##### Fire prevent measures:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Fire class: B

Temperature class: T2

Explosion group: II A

##### Environmental precautions:

See section 8.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels:

Keep/Store only in original container.

Take precautionary measures against static discharges.

##### Hints on storage assembly:

Do not store together with: Oxidising agent

##### Storage class: 3 - Flammable liquids

##### Further information on storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

#### 7.3. Specific end use(s)

##### Recommendation:

refer to chapter 1.

### SECTION 8: Exposure controls/personal protection

#### 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
TRGS 900 (DE)	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m <sup>3</sup> ) ② 400 ppm (1,000 mg/m <sup>3</sup> )
DFG (DE)	ethanol CAS No.: 64-17-5	① 200 ppm (380 mg/m <sup>3</sup> ) ② 400 ppm (1,520 mg/m <sup>3</sup> )
TRGS 900 (DE)	ethanol CAS No.: 64-17-5	① 500 ppm (960 mg/m <sup>3</sup> ) ② 1,000 ppm (1,920 mg/m <sup>3</sup> )

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### 8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
propan-2-ol CAS No.: 67-63-0	500 mg/m <sup>3</sup>	① DNEL worker ② DNEL long-term inhalative (systemic)
ethanol CAS No.: 64-17-5	950 mg/m <sup>3</sup>	① DNEL worker ② DNEL long-term inhalative (systemic)

Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0	140.9 mg/l	① PNEC aquatic, freshwater
ethanol CAS No.: 64-17-5	0.96 mg/l	① PNEC aquatic, freshwater

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

See chapter 7. No additional measures necessary.

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Tightly sealed safety glasses.

#### Skin protection:

Protect skin by using skin protective cream.

Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

Avoid contact with skin, eyes and clothes.

Hand protection: NBR (Nitrile rubber)

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough time (maximum wearing time): > 480 min

#### Respiratory protection:

Respiratory protection A

Respiratory protection necessary at: aerosol or mist formation

#### Other protection measures:

Protective clothing: Only wear fitting, comfortable and clean protective clothing.

### 8.2.3. Environmental exposure controls

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

## 8.3. Additional information

No data available

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

**Physical state:** Liquid

**Colour:** colourless

**Odour:** like: Alcohol

**Odour threshold:** not determined

##### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			neutral
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	80 - 82 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	13 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	> 425 °C			
Upper/lower flammability or explosive limits	2 - 12 Vol-%			
Vapour pressure	5.7 - 43 hPa	20 °C		
Vapour density	<i>not determined</i>			
Relative density	0.78 - 0.79			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			completely miscible
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

#### 9.2. Other information

Vapours can form explosive mixtures with air.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Exothermic reactions with: Oxidising agent

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Heating may cause an explosion.

#### 10.4. Conditions to avoid

Keep away from heat.

Protect against direct sunlight.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### 10.5. Incompatible materials

Alkali metals, Alkaline earth metals.

Aluminium, Oxidising agent, aldehydes. Amines.

#### 10.6. Hazardous decomposition products

Peroxides

Gases/vapours, flammable

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
67-63-0	propan-2-ol	<b>LD<sub>50</sub> oral:</b> 5,045 mg/kg (Rat) Source: RTECS <b>LD<sub>50</sub> dermal:</b> 12,800 mg/kg (Rabbit) Source: RTECS <b>LC<sub>50</sub> inhalative:</b> 72.6 mg/l (Rat) Source: IUCLID
64-17-5	ethanol	<b>LD<sub>50</sub> oral:</b> =10,470 mg/kg (Rat)

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

Not an irritant.

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

Isopropanol Species: Guinea pig not sensitising. Source: IUCLID

#### Germ cell mutagenicity:

No experimental indications of mutagenicity in-vitro exist.

#### Carcinogenicity:

No indication of human carcinogenicity.

#### Reproductive toxicity:

No indications of human reproductive toxicity exist.

#### 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

CAS No.	Substance name	Toxicological information
67-63-0	propan-2-ol	<b>LC<sub>50</sub>:</b> 1,400 mg/l 4 d Source: ECOTOX Database <b>EC<sub>50</sub>:</b> 13,299 mg/l 2 d Source : IUCLID
64-17-5	ethanol	<b>NOEC:</b> >1 mg/l

#### Aquatic toxicity:

There are no data available on the preparation/mixture itself.

#### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
67-63-0	propan-2-ol	Yes, rapidly	
64-17-5	ethanol	Yes, rapidly	

#### Biodegradation:

Readily biodegradable (according to OECD criteria).

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### 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

log Pow: 0.05 (OECD 107)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
67-63-0	propan-2-ol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
64-17-5	ethanol	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

Chemical oxygen demand (COD): 96 % TOD TOD: 2.4 g/g (Isopropanol)

Biochemical oxygen demand (BOD): 49 % TOD TOD: 2.4 g/g (Isopropanol)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

List of proposed waste codes/waste designations in accordance with AAV:

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

07 07 04 \* other organic solvents, washing liquids and mother liquors

\*: Evidence for disposal must be provided.

#### Waste code packaging:

07 07 04 \* other organic solvents, washing liquids and mother liquors

\*: Evidence for disposal must be provided.

### Waste treatment options





#### Appropriate disposal / Package:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

### 13.2. Additional information

No data available

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
UN 1987	UN 1987	UN 1987	UN 1987
<b>14.2. UN proper shipping name</b>			
ALCOHOLS N.O. S. (propan-2-ol)	ALCOHOLS, N.O.S. (propan-2-ol)	ALCOHOLS N.O. S. (propan-2-ol)	ALCOHOLS N.O. S. (propan-2-ol)
<b>14.3. Transport hazard class(es)</b>			
 3	 3	 3	 3



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special provisions: Limited quantity (LQ):</b> <b>Hazard identification number (Kemler No.):</b> 33 <b>Classification code:</b> - <b>Remark:</b>	<b>Special provisions: Limited quantity (LQ):</b> <b>Classification code:</b> - <b>Remark:</b>	<b>Special provisions: Limited quantity (LQ):</b> <b>EmS-No.:</b> <b>Remark:</b> EmS-No.: F-E, S-D	<b>Special provisions: Limited quantity (LQ):</b> <b>Remark:</b>

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

##### Restrictions on use:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### 15.1.2. National regulations

##### [DE] National regulations

##### Restrictions of occupation

§ 5 MuSchRiV

§ 22 JArbSchG

§ 4 MuSchRiV

##### Water hazard class (WGK)

##### WGK:

1 - schwach wassergefährdend

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

### 15.3. Additional information

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

### 16.3. Key literature references and sources for data

REACH Dissemination Portal

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	On basis of test data.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Minimum classification.
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	Minimum classification.

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

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

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

This Safety Data Sheet was drawn up by  
TÜV SÜD Industrie Service GmbH (see below),  
based on data from the supplier, who is named in section 1  
and who is responsible for this document.  
TÜV SÜD Industrie Service GmbH  
Department Environmental Service  
Westendstraße 199  
80686 Munich - Germany