

Revision date: 26-Jan-2015 Version: 3 Print date: 26-Jan-2015

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

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

1.1. Product identifier

BLQ 1800

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

Use of the substance/mixture:

Evaporation liquid

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

Telefax: +49 (0) 2736 4154 99

E-mail: info@mig-o-mat.com

Website: www.mig-o-mat.com

E-mail (competent person): reach@tuev-sued.de

TÜV SÜD Industrie Service GmbH - Environmental Service - 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.

Classification according to Directive 67/548/EEC or 1999/45/EC:

F: R11

Xi: R36

R67

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

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): -

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Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P271	Use only outdoors or in a well-ventilated area.
P280.6	Wear eye/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.

Labelling (67/548/EEC or 1999/45/EC)

Hazard pictograms:



Xi
Irritant



F
Highly flammable

Hazard statements

R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

Precautionary statements

S7	Keep container tightly closed.
S16	Keep away from sources of ignition. - No smoking.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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 67/548/EEC 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 Danger H225-H319-H336 F; R11 — Xi; R36 — R67	> 85 - < 95 Wt %
CAS No.: 64-17-5 EC No.: 200-578-6	ethanol Flam. Liq. 2 Danger H225 F; R11	> 5 - < 15 Wt %

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

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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.

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 (CO₂)

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 (CO₂), 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.

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6.4. Reference to other sections

No data available

6.5. Additional information

See protective measures under point 7 and 8.

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

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
VLA (FR)	propan-2-ol CAS No.: 67-63-0	② 400 ppm (980 mg/m ³)
TRGS 900 (DE)	propan-2-ol CAS No.: 67-63-0	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
TRGS 900 (DE)	ethanol CAS No.: 64-17-5	① 500 ppm (960 mg/m ³) ② 1,000 ppm (1,920 mg/m ³)
VLA (FR)	ethanol CAS No.: 64-17-5	① 1,000 ppm (1,900 mg/m ³) ② 5,000 ppm (9,500 mg/m ³)

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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 Sample time 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 ³	① DNEL worker ② DNEL long-term inhalative (systemic)
ethanol CAS No.: 64-17-5	950 mg/m ³	① DNEL worker ② DNEL long-term inhalative (systemic)

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

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/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	80 – 82 °C			

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parameter		at °C	Method	remark
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>			
Density	0.78 - 0.79			
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<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

Peroxide

Gases/vapours, flammable

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
67-63-0	propan-2-ol	LD₅₀ oral: 5,045 mg/kg (Rat) Source: RTECS LD₅₀ dermal: 12,800 mg/kg (Rabbit) Source: RTECS LC₅₀ inhalative: 72.6 mg/l (Rat) Source: IUCLID

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.

Eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Isopropanol Species: Guinea pig not sensitising. Source: IUCLID

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Germ cell mutagenicity:

No experimental indications of in vivo mutagenicity 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	LC ₅₀ : 1,400 mg/l 4 d Source: ECOTOX Database EC ₅₀ : 13,299 mg/l 2 d Source : IUCLID

Aquatic toxicity:

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

12.2. Persistence and degradability

Biodegradation:

Readily biodegradable (according to OECD criteria).

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

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
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*: Evidence for disposal must be provided.

Waste code packaging:

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

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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-No.			
1987	1987	1987	1987
14.2. UN proper shipping name			
ALCOHOLS N.O. S. (contains isopropanol)	ALCOHOLS, N.O.S. (contains isopropanol)	ALCOHOLS N.O. S. (contains isopropanol)	ALCOHOLS N.O. S. (contains isopropanol)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special provisions: Limited quantity (LQ): Hazard identification number (Kemler No.): 33 Classification code: - remark:	Special provisions: Limited quantity (LQ): Classification code: - remark:	Special provisions: Limited quantity (LQ): EmS-No.: remark: EmS-No.: F-E, S-D	Special provisions: Limited quantity (LQ): remark:

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

No data available

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

Source:

Self-classification

15.2. Chemical Safety Assessment

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

15.3. Additional information

No data available

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SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu

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) 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 (R-phrases)	
R11	Highly flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

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
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 80686 Munich - Germany