

SAFETY DATA SHEET

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

Revision date: 15 Sept 2023

Print date: 9 Oct 2023

Version: 5

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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

UFI:

H600-606D-9002-5G50

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

Website: www.mig-o-mat.com

E-mail (competent person): reach@tuv sud.com

TÜV SÜD Industrie Service GmbH -

Environmental Service REACH -

Westendstraße 199 -

80686 Munich -

Germany

+49 (0) 89 5791 3031

1.4. Emergency telephone number

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.

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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.
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Hazard statements for health hazards

H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Supplemental hazard information: none

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	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.

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.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no component meets the criteria.

Adverse environmental effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no component meets the criteria.

Other adverse effects:

No information available.

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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 Index No.: 603-117-00-0	propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)   Danger	> 85 - < 95 weight-%
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH No.: 01-2119487297-23	ethanol Flam. Liq. 2 (H225)  Danger	> 5 - < 15 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 contaminated, saturated clothing immediately.

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 flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following 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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment.

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 (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.

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 (TRGS 510, Germany): 3 - Flammable liquids

Further information on storage conditions:

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

7.3. Specific end use(s)

No data available

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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 EC No.: 200-661-7	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³) ⑤ DFG, Y
TRGS 900 (DE) from 29 Mar 2019	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 200 ppm (380 mg/m ³) ② 800 ppm (1,520 mg/m ³) ⑤ DFG, Y

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) from 1 Nov 2012	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE) from 1 Nov 2012	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	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 EC No.: 200-661-7	500 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m ³	① DNEL worker ② Long-term - inhalation, 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
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	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:

Eye glasses with side protection

Skin protection:

Use protective skin cream before handling the product.

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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:: > 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.

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	Value	at °C	① Method ② Remark
pH	not determined		② neutral
Melting point	not determined		
Freezing point	not determined		
Initial boiling point and boiling range	80 - 82 °C		
Decomposition temperature	not determined		
Flash point	13 °C		
Evaporation rate	not determined		
Auto-ignition temperature	> 425 °C		
Upper/lower flammability or explosive limits	2 - 12 Vol-%		
Vapour pressure	5.7 - 43 hPa	20 °C	
Vapour density	not determined		
Density	0.78 - 0.79		
Relative density	not determined		
Bulk density	not determined		
Water solubility	not determined		② completely miscible
Partition coefficient: n-octanol/water	not determined		
Dynamic viscosity	not determined		
Kinematic viscosity	not determined		

9.2. Other information

Vapours can form explosive mixtures with air.

9.2.1. Information with regard to physical hazard classes

Flammable liquids:

Fire class: B

Temperature Class: T2

Explosion group: II A

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SECTION 10: Stability and reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat.

Protect from direct sunlight.

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

10.5. Incompatible materials

Alkali metals, Alkaline earth metal

Aluminium, Oxidising agent,

Amines.

aldehydes

10.6. Hazardous decomposition products

Peroxides

Gases/vapours, flammable

SECTION 11: Toxicological information

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
LD₅₀ oral: 5,045 mg/kg (Rat) Source: RTECS
LD₅₀ dermal: 12,800 mg/kg (Rabbit) Source: RTECS
LC₅₀ Acute inhalation toxicity (gas): 72.6 mg/L (Rat) Source: IUCLID
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LD₅₀ oral: =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:

non-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 in vitro 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.

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11.2. Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no component meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

LC₅₀ : 1,400 mg/L 4 d (fish) Source: ECOTOX Database
--

EC₅₀ : 13,299 mg/L 2 d (crustaceans) Source : IUCLID
--

Aquatic toxicity:

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

Assessment/classification:

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

12.2. Persistence and degradability

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Biodegradation: Yes, rapidly

ethanol CAS No.: 64-17-5 EC No.: 200-578-6

Biodegradation: Yes, rapidly

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

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

ethanol CAS No.: 64-17-5 EC No.: 200-578-6

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no component meets the criteria.

12.7. Other adverse effects

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

Biochemical oxygen demand: 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.

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Directive 2008/98/EC (Waste Framework Directive)

HP 3 Flammable

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.

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	UN 1987	UN 1987	UN 1987
14.2. UN proper shipping name			
ALCOHOLS N.O. S.	ALCOHOLS, N.O.S.	ALCOHOLS N.O. S.	ALCOHOLS N.O. S.
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			
Hazard identification number (Kemler No.): 33 Classification code: -	No data available	Remark: EmS-No.: F-E, S-D	No data available

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

Restrictions on use:

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

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

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P5b Flammable liquids

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImSchV)

for substances contained in the product:

Hazard categories:

- P5b Flammable liquids

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Water hazard class

WGK:

1 - slightly hazardous to water

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

Editorial changes only

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
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ERC	Environmental Release Category
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
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
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
PROC	Process Category
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
ZNS	central nervous system

16.3. Key literature references and sources for data

REACH Dissemination Portal

<https://echa.europa.eu/de/information-on-chemicals/registered-substances>

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 (<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.
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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