

**Safety data sheet according to Regulation (EC)  
No. 1907/2006 (REACH), Article 31**

Version number: 1.5 / Revision date: 01.09.2021

**MS 2000 separating fluid**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Trade name: MS 2000 separating fluid / article number: #64000667 (100 ml) / #64000670 (500 ml)  
UFI-Code: KRRQ-GE7X-UX55-5EJ4

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

No further relevant information available.  
Use of the substance / the mixture separating agent

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

Company name:	Baumann Dental GmbH	
Street/P.O. Box:	Im Hölderle 5	
Post code, Place:	D-75196 Remchingen	
Internet:	www.baumann-dental.de	
@-mail:	info@baumann-dental.de	Department responsible for information:
Telephone:	+49 (0) 7232 - 73218 - 0	Telephone: +49 (0) 7232 - 73218 - 0
Telefax:	+49 (0) 7232 - 73218 - 99	E-mail: info@baumann-dental.de

**1.4. Emergency telephone number**

Germany: +49(0)551-19240 (Poison Information Centre North, 24h in German and English)  
Austria: +43(0)1-4064343 (Poison Information Centre, 24h)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008



GHS02 Flame / Flam. Liq. / 2 H225 Highly flammable liquid and vapour.



GHS08 Health hazard / Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 Environment / Aquatic Acute 1 / H400 Very toxic to aquatic life.  
Aquatic Chronic 1 / H410 Very toxic to aquatic life with long lasting effects.



GHS07 / Skin Irrit. 2 / H315 Causes skin irritation. Eye Irrit. 2 / H319 Causes serious eye irritation  
STOT SE 3 / H336 May cause drowsiness or dizziness

**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



GHS07



GHS08



GHS09

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Signal word Hazard:

Hazard-determining components for labelling:

Heptane, propan-2-ol  
Cyclohexane, methylcyclohexane

Hazard statements:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves / eye protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTRE or a doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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. Chemical characterisation:

Mixtures

Description:

Mixture of substances listed below with non-hazardous additions.

Hazardous ingredients:

CAS: 67-63-0 EINECS: 200-661-7	Propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 142-82-5 EINECS: 205-563-8	Heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 108-87-2 EINECS: 203-624-3	Methylcyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 110-82-7 EINECS: 203-806-2	Cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%

Additional notes:

Wording of the listed hazard statements is given in Section 16.

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#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of first aid measures

If inhaled:

In case of unconsciousness place and transport in a stable lateral position.  
Provide fresh air, consult a doctor in case of discomfort.

Following skin contact:

Wash off immediately with soap and water and rinse thoroughly.

Following eye contact:

Rinse eyes under running water for several minutes with the eyelid open.  
If symptoms persist, consult a doctor.

If swallowed:

Do not induce vomiting, seek medical attention immediately.

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

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 media: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.  
Extinguishing media unsuitable for safety reasons: full water jet

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

No further relevant information available.

##### 5.3. Advice for firefighters

Special protective equipment: No special measures required.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

##### 6.2. Environmental precautions

In case of penetration into waters or the sewage system, inform the competent authorities.  
Do not allow to enter the sewage system/surface water/groundwater.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste in accordance with Section 13.  
Ensure adequate ventilation.

##### 6.4. Reference to other sections

For information on safe handling, see Section 7.  
For information on personal protective equipment, see Section 8.  
For information on disposal, see Section 13.

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**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Store in cool and dry place in tightly closed containers.  
Notes on fire and explosion protection:  
Keep sources of ignition away - no smoking.  
Take measures against electrostatic charging.

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

Storage: requirements for storage rooms and containers: store in a cool place.  
Information on common storage: Not required.

Further information on storage conditions:

Keep containers tightly closed.  
Store in cool and dry place in tightly closed containers.

Storage class: SC 3

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

No further relevant information available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional information on the design of technical systems:

No further information, see Section 7.

**8.1. Control parameters**

Components with limit values to be monitored at the workplace:

67-63-0 Propan-2-ol  
OEL - Long-term value: 500 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> / 2(II); DFG, Y  
42-82-5 Heptane  
TLV - Long-term value: 2100 mg/m<sup>3</sup>, 500 ml/m<sup>3</sup>  
108-87-2 Methylcyclohexane  
OEL - Long-term value: 810 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> / 2(II); DFG  
110-82-7 Cyclohexane  
OEL - Long-term value: 700 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> / 4(II); DFG, EU

Components with biological limit values:

67-63-0 Propan-2-ol  
BLV 25 mg/l  
Sample material: Whole blood  
Sampling time: End of exposure or shift  
Parameter: Acetone  
25 mg/l  
Sample material: Urine  
Sampling time: End of exposure or shift  
Parameter: Acetone

110-82-7 Cyclohexane  
BLV 150 mg/g creatinine  
Sample material: Urine  
Sampling time: for long-term exposure: After several previous shifts, end of exposure or end of shift  
Parameter: 1,2-Cyclohexandiole (after hydrolysis)

Additional information: the lists valid at the time of preparation served as a basis.

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#### 8.2. Exposure controls

Personal protective equipment:

General protection and hygiene measures:

Keep away from food, drink and animal feed.

Take off contaminated, soaked clothing immediately.

Wash hands prior to breaks and at the end of work.

Avoid contact with eyes and skin.

Respiratory protection: Not required with good room ventilation.

Hand protection: Protective gloves

The glove material must be impermeable and resistant to the product / substance / preparation. Selection of the glove material taking into account 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 characteristics 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.

Penetration time of the glove material

The exact breakthrough time must be obtained from the manufacturer of the protective gloves and must be observed.

Gloves made of the following materials are suitable for permanent contact:

Polychloroprene - CR (0.5 mm): breakthrough time > 4 h

Nitrile rubber/nitrile latex - NBR (0.35 mm): breakthrough time > 4h

Butyl rubber - butyl (0.5 mm): breakthrough time > 8 h

Fluorinated rubber - FKM (0.4 mm): breakthrough time > 8 h

Polyvinylchloride - PVC (0.5 mm): breakthrough time > 4 h

This recommendation is based exclusively on the chemical compatibility and the test according to EN 374 under laboratory conditions. Depending on the use, different requirements may arise.

Therefore, the recommendations of the supplier of the protective gloves must also be taken into account.

Gloves made of the following materials are suitable as splash protection: nitrile rubber

Eye protection: Tightly sealing safety goggles

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

General information:

Appearance:

Form:	Liquid
Colour	Clear
Odour:	Characteristic
Odour threshold:	Not determined
pH value:	Not determined.

Change of state:

Melting point/melting range:	Reversible precipitation below 12°C possible
Boiling point/boiling range:	78°C
Flash point:	-9°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	215°C
Decomposition temperature:	Not determined.
Auto-ignition:	The product is not self-igniting.
Explosion hazard:	The product is not explosive, however, the formation of explosive vapour/air mixtures is possible.

Explosive limits:

Lower:	1.1 Vol %
Upper:	12.0 Vol %
Vapour pressure at 20°C:	48 hPa
Density at 20°C:	0.74 g/cm <sup>3</sup>
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility / miscibility with water:	Not miscible or hardly miscible.
Distribution coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvent:	>70%
Water:	0%
VOC (EU)	78%

**9.2. Other information**

No further relevant information available.

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Thermal decomposition / conditions to avoid:  
No decomposition if used as intended.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

No further relevant information available.

**10.5. Incompatible materials**

No further relevant information available.

**10.6. Hazardous decomposition products: No hazardous decomposition products known.****SECTION 11. TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Acute toxicity

Classification-relevant LD/LC50 values:

67-63-0 Propan-2-ol

Oral / LD50 / 5045 mg/kg (rat)

Dermal / LD50 / 12800 mg/kg (rabbit)

Inhalative / LC50 / 4 h 30 mg/l (rat)

108-87-2 Methylcyclohexane

Oral / LD50 / 2250 mg/kg (mouse)

110-82-7 Cyclohexane

Oral LD50 12705 mg/kg (rat)

Primary irritant effect:

Etching/irritant effect on the skin: Irritating to skin and mucous membranes.

Serious eye damage/irritation Irritant effect.

Sensitisation of the respiratory tract/skin: May be fatal if swallowed and enters airways.

Additional toxicological information:

Based on the calculation method of the General Classification Guideline of the EU for preparations in the last amended version, the product exhibits the following hazards:

Irritant

Sensitisation not applicable

CMR effects (carcinogenic, mutagenic and teratogenic)

Germ cell mutagenicity:

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

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

Reproductive toxicity:

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

Specific target organ toxicity at single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity at repeated exposure

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

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**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Aquatic toxicity: No further relevant information available.

**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.

Ecotoxic effects

Note: very toxic to fish.

Further ecological information:

Water hazard class: 2 (self-classification): hazardous to water

Do not allow to enter groundwater, waters or the sewage system.

Also toxic to fish and plankton in waters.

Very toxic to aquatic life

**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 of together with household waste.

Do not allow to enter the sewage system.

European Waste Directory

07 00 00 / WASTE FROM ORGANIC-CHEMICAL PROCESSES

07 07 00 / Waste from MFSU of fine chemicals and chemicals not otherwise specified

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

Uncleaned packaging:

Recommendation: Disposal in accordance with official regulations.

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**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number**

ADR, IMDG, IATA UN1993

**14.2. UN proper shipping name**

ADR 1993 FLAMMABLE LIQUID SUBSTANCE, N . A . G . (HEPTANE , ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS  
IMDG, IATA FLAMMABLE LIQUID, N.O.S. (HEPTANES, ISOPROPANOL (ISOPROPYL ALCOHOL))

**14.3. Transport hazard classes**

ADR



Class 3 Flammable liquid substances  
Hazard label 3

IMDG, IATA



Class 3 Flammable liquid substances  
Label 3

**14.4. Packing group**

ADR, IMDG, IATA II

**14.5. Environmental hazards**

Marine pollutant: No  
Special labelling (ADR): Symbol (fish and tree)

**14.6. Special precautions for user**

Caution: Flammable liquid substances  
Kemler number: 33  
EMS number: F-E,S-E

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**14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF THE MARPOL AGREEMENT 73/78 AND THE IBC CODE**

Not applicable.

Transport/further information:

ADR

Exempted quantities (EQ): E2

Limited quantity (LQ): 1L

Transport category: 2

Tunnel restriction code: D/E

Notes: Limited quantity: Maximum 30 kg per package, apply "diamond with black corners" label to the transport package.

UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.A.G. (HEPTANE, ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS, 3, II

**SECTION 15: REGULATORY INFORMATION**

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

Labelling according to Regulation (EC) No. 1272/2008 GHS labelling elements

National regulations:

Ordinance on Major Accidents: The quantity thresholds according to the Ordinance on Major Accidents must be observed.

Water hazard class: WGK 2 (self-classification): hazardous to water.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been conducted.

**SECTION 16: OTHER INFORMATION**

The information is based on the current state of our knowledge, however, it does not represent a guarantee of product characteristics and does not establish a contractual legal relationship.

Relevant phrases:

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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Department issuing the data sheet: Product Safety Department

#### Abbreviations and acronyms:

RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organisation
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Flam. Liq. 2:	Flammable liquids, Hazard Category 2
Skin Irrit. 2:	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3:	Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1:	Aspiration hazard, Hazard Category 1
Aquatic Acute 1:	Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2:	Hazardous to the aquatic environment - Chronic Hazard, Category 2

\* Data changed versus the previous version