

# Safety data sheet

according to 1907/2006/EC, Article 31 / revised: 29.05.2019

## MS SEPARATING FLUID

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

#### 1.1. Product identifier

Trade name: MS separating fluid

#### 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: Frankenstraße 25

Postal code, Place: D-75210 Kelttern

Internet: [www.baumann-dental.de](http://www.baumann-dental.de)

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+49 (0) 7236-933690, e-mail: [info@baumann-dental.de](mailto:info@baumann-dental.de)

#### 1.4 Emergency telephone number: +49 (0) 551 - 1 92 40

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) 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 and dizziness.

#### 2.2 Label elements

Labelling according to Regulation (EC) 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

#### Hazard statements

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapour.                   |
| H315 | Causes skin irritation.                               |
| H319 | Causes serious eye irritation.                        |
| H336 | May cause drowsiness and 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           | Disposal 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<br>EINECS: 200-661-7  | <b>Propan-2-ol</b><br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336   | 25-50%  |
| CAS: 142-82-5<br>EINECS: 205-563-8 | <b>Heptane</b><br>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<br>EINECS: 203-624-3 | <b>Methylcyclohexane</b><br>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<br>EINECS: 203-806-2 | <b>Cyclohexane</b><br>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 physician in case of discomfort.

**In case of skin contact:** Wash off immediately with soap and water and rinse thoroughly.

**In case of eye contact:** Rinse eyes under running water for several minutes with the eyelid open. If symptoms persist, consult a physician.

**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-Cyclohexandiol (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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### SECTION 10: Stability and Reactivity

#### 10.1 Reactivity

#### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

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.
- Severe eye damage/irritation Irritant effect.
- Sensitisation of the respiratory tract/skin No sensitising effect known.

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

#### **General notes:**

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 / Waster from MFSU of fine chemicals and chemicals a. n. g.

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 . ( H E P T A N E , I S O P R O P A N O L  
( I S O P R O P Y L A L C O H O L ) ) ,  
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 and according to the 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

Comments

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

UN "Model Regulation":

UN1993, FLAMMABLE LIQUID  
SUBSTANCE, N.A.G. (HEPTANE, ISOPROPANOL  
( I S O P R O P Y L A L C O H O L ) ) ,  
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) 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.

Other regulations, restrictions and prohibition ordinances

Customs tariff number: 3403 99 00

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 sentences

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 and 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

Contact person: Dr. Metz

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 per cent

LD50: Lethal dose, 50 per cent

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

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