

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 and Regulation (EC) No 1272/2008

**Product name:** Dr. Bronner's Hand-Hygienspray Peppermint  
**Issued:** 03.02.2020  
**Revised:**  
**Valid from::** 03.02.2020  
**Version:** 1

**Dr. Bronner's Europe GmbH**  
D-41469 Neuss

**Replace version:**

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

Article description: **Dr. Bronner's Hand-Hygienspray Peppermint**

Product name:

### **Dr. Bronner's Hand-Hygienspray Peppermint**

Index-No: not assigned

EC-No: not assigned

CAS-No: not assigned

REACH-No: not assigned

**Other names:** none

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

Spray for disinfection

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

#### **Supplier**

Dr. Bronner's Europe GmbH

#### **Street / PO Box**

Siemensstr.14

#### **Nat./ postal code /city**

D-41469 Neuss

#### **Technical information:**

+49 (0) 2137 937 91 11

#### **Telephone / Telefax / E-Mail**

+49 (0) 2137 937 91 00 (central reception)/ +49 (0) 2137 937 91 01/ E-Mail:  
info@drbronner.de

### 1.4 EMERGENCY TELEPHONE NUMBER

+49 (0) 2137 937 91 00 (central reception) (monday - thursday 09:00-16:00, friday 09:00-12:30)

IRELAND: +35318092566 (monday - sunday 00:00-24:00)

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## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### **Classification according to Regulation (EC) No 1272/2008**

Flammable liquids, category 2, H225

Sensitization Skin, category 1, H317

Eye Irritation, category 2, H319

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## 2.2 Label elements

### Label elements according to Regulation (EC) No 1272/2008

#### Hazard pictograms:



**Signal word:** Danger

#### Hazardous ingredients for labeling

**Contains:** See section 3

#### Hazard statements

H-Codes

H225 Highly flammable liquid and vapour  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

#### Precautionary statements

P-Codes

P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/light/.../equipment.  
P243 Take precautionary measures against static discharge.  
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local regulation.

#### Additional labelling:

none

## 2.3 Other hazards to humans

May be explosive / highly flammable.

## 2.4 Other hazards to the environment

None when used as intended.

## 3. Composition/information on ingredients

Chemical characterization: Ethanol-solution

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## Regulation (EC) No 1272/2008

Substances	EG-No. CAS-No.	Index-No. REACH-No.	Concentration %	H-Codes	Classification
Ethanol	200-578-6	64-17-5	57-67	H225	Flam. Liq. 2
Mentha piperita	616-900-7	8006-90-4	< 10	H315 H317 H411	Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2

(Full text of H-codes and classifications: see SECTION 16)

## 4. First aid measures

### 4.1 Description of first aid measures

Take off dirty, soaked clothes immediately. If you feel unwell, seek medical advice.

#### **Following inhalation**

In case of malaise fresh air. If symptoms persist, seek medical advice.

#### **Following skin contact**

Rinse thoroughly with plenty of soap and water. If further skin irritations occur, seek medical attention. In severe cases, seek medical advice.

#### **Following eye contact**

Rinse thoroughly with plenty of water, even under the eyelids. If symptoms persist, seek medical advice.

#### **Following ingestion**

Gently wipe or Rinse mouth immediately and drink plenty of water. **Do NOT induce vomiting.** Never give anything by mouth to an unconscious person. Seek medical advice.

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

The most important known symptoms and effects are described on the labelling (see section 2.2) and / or in chapter 11.

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

### Symptoms of acute poisoning:

**Eyes:** by liquid spatter: burning / stinging sensation of foreign bodies, redness of the conjunctivae, possibly superficial corneal lesions, normally fast reversible

**Skin:** degreasing / dehydration, subsequently possible inflammation; allergic reactions; in case of massive skin contact, possibly slight systemic effects

**Inhalation:** in very high concentrations irritation on the eyes and upper respiratory tract (burning mucous membranes, lacrimation, tickly throat); possibly bronchoconstriction; CNS symptoms such as headache, dizziness, drowsiness, possibly noxiousness, loss of consciousness

**Ingestion:** strong burning of the mucous membranes; Systemic CNS disorder similar to the intake of alcoholic beverages; cause of butanone probably caused intolerance reactions (gastrointestinal complaints, vomiting) and possibly also increased additional systemic effects.

### First aid measures:

After the action of liquid sprayers on the eye rinse with water, if irritation persists: seek medical advice.

Dispose of contaminated skin with soap and water, if necessary re-greased. If irritation occurs, apply a dermatocorticoid. Further treatment will generally not be necessary. For large area wetting (simultaneous inhalation), however, it is recommended to observe the person concerned for signs of an alcohol intoxication (limitation of workability and driving ability). After inhalation supply fresh air. In cases of signs of irritation or bronchoconstriction, glucocorticoid administration (at least inhalation) is indicated.

Observation of the victim for systemic effects, if necessary symptomatic treatment. After oral intake of high doses of ethanol is to be considered a gastric lavage (in intubation). The further treatment can be carried out analogously to an intoxication by alcoholic beverages, in particular the cardiovascular function. Transport to the clinic for the purpose of further clarification / observation of the injured person, also with regard to any additional noxious substances or medicaments whose effect can be amplified by ethanol. Treat symptomatically.

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## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable: Carbon dioxide (CO<sub>2</sub>)  
alcohol resistant foam  
dry powder  
water spray  
Unsuitable: water jet

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

Danger of formation of carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for fire-fighters

Use self-contained breathing apparatus. Adapt the protective clothing to the surrounding fires. Fight the fires with fire extinguishers.

### 5.4 Additional information

Vapors are heavier than air and spread on the ground. Steam-air mixture is explosive, even in empty unpurified containers. Cool endangered containers with water spray.

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## 6. Accidental release measures

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

Use respiratory protection when developing vapors. Ensure adequate ventilation.  
Use personal protective clothing. Keep away from heat / sparks / open flame / hot surfaces. Do not smoke.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of leak or in case of penetration into waterways, ground or drains inform competent authorities (fire brigade). Note local regulations for disposal. Small amounts can be absorbed with sand, soil or absorbent granules. Collect in suitable, closed containers for disposal.

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

Absorb with liquid-binding material (for example: sand, silica gel, acid binder or universal binder). Collect in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Disposal: see section 13

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## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Advice for safe handling

Avoid contact with eyes, skin and clothing (safety goggles and safety gloves). Keep out of the reach of children. Use only in well-ventilated areas. Store in a dry, well-ventilated area protected from extreme temperatures. Do not breathe spray or spray mist. Keep away from food.

#### Information about fire and explosion protection

Do not smoke. The product is highly flammable. Vapors may form explosive mixtures with air. Keep product and emptied containers away from sources of heat and ignition. Take precautionary measures against electrostatic charging.

#### Additional notes on the design of technical installations

To limit the emissions caused by volatile organic compounds (VOCs), the solvent vapors should be fed to an exhaust gas purification device.

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

#### Storage conditions

Keep away from food, drink and feed.

#### Requirements for storage rooms and vessels

Store in the original container. Keep container tightly closed. Store in a dry, well-ventilated area protected from extreme temperatures. Observe the regulations of explosion protection. Incompatible with oxidizing agents.

**Storage class:** 3

### 7.3 Specific end uses:

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Disinfection product

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits (AGW) Germany

Substance	CAS-No.	Occupational exposure 8h [mg/m <sup>3</sup> ]	Occupational exposure 8h [ml/m <sup>3</sup> ]	Other	Source
Ethanol	64-17-5	-	-	1000 ppm (short term 15 min)	Ireland
Ethanol	64-17-5	1920	1000	-	WEL (ACTS) UK

### 8.2 Exposure controls

#### Personal protective equipment

##### Respiratory protection

In case of insufficient ventilation wear respiratory protection (gas filter type A).

e.g. Full mask / half mask / filtering half mask

Gas filter A1 (brown) up to 1000 mL / m<sup>3</sup> (ppm)

Gas filter A2 (brown) to 5000 mL / m<sup>3</sup> (ppm)

Gas filter A3 (brown) to 10000 mL / m<sup>3</sup> (ppm)

Observe the rules for the use of respiratory protective devices as well as the time limitation according to the Berufsgenossenschaftliche Regel (BGR) 190190

##### Hand protection

No information.

##### Eye protection

Tightly fitting protective goggles

##### Body protection

Wear protective clothing appropriate for body contact. Antistatic protective clothing e.g. made of cotton and shoes with antistatic soles.

##### Hand protection

No information.

##### Protective and hygiene measures

When using, do not eat, drink or smoke. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes and clothing.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance

- Physical state:

liquid

- Colour:

colourless

Odour:

characteristic

Density:

not specified

pH-value:

not specified

Melting point/freezing point:

not specified

Initial boiling point/boiling range:

not specified

Flash point:

<23 °C

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Upper / lower flammability or explosive limits:	not specified
Vapour pressure:	not specified
Vapour density:	not specified
Relativ density	not specified
Solubility(ies):	not specified
Partition coefficient n-octanol/water:	not specified
Viscosity:	not specified
Explosive properties:	not specified
Oxidising properties:	not specified

## 9.2 Other information

none

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## 10. Stability and reactivity

### 10.1 Conditions to avoid / Materials to be avoided

Evaporation may occur at high temperatures, with flammable or explosive mixtures being formed in contact with air. Avoid contact with hot surfaces or ignition sources.

### 10.2 Hazardous decomposition products

Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) are produced during combustion. Formation of irritating vapors. Formation of flammable gases (e.g., hydrogen) or vapors upon contact with strong oxidizing agents, alkali metals, acids.

### 10.3 Further information

none

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## 11. Toxicological information

### 11.1 Toxicological tests

#### 11.1.1 Acute toxicity (ethanol)

Oral:	LD <sub>50</sub> (oral, rat): 6200 mg/kg (IUCLID)
Dermal:	no data
Inhalation:	LC <sub>50</sub> (inhaled, rat): 124,7 mg/l/4h (IUCLID)

#### 11.1.2 Irritant / Corrosive / Sensitization

Skin irritation:	Effective degreasing. May cause irritation and dry skin. Repeated prolonged contact may result in serious de-greasing. Under these circumstances the skin is less resistant to other substances and sensitization and dermatitis may occur.
Skin sensitization:	May cause sensitization.
Eye irritation:	Eye contact can cause irritation
Respiratory tract:	Inhalation of high vapor concentrations can cause narcotic effects. Inhalation of fumes in high concentrations may irritate the respiratory tract..
Digestive tract:	May cause irritation in the mouth, throat and digestive tract. May cause nausea.

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## 11.1.3 Subacute to chronic toxicity / carcinogenic, mutagenic, toxic effects on reproduction

Carcinogen	none
Mutagen	none
Toxic for reproduction	none
Chronic Effects	none

## 11.1.4 Other information

none

## 11.2 Practical experience

none

### 11.2.1 Classification-relevant observations

none

### 11.2.2 Other observations

none

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## 12. Ecological information

### 12.1 Ecotoxicity

n.d.

### 12.2 Persistence and degradability

n.d.

### 12.3 Bioaccumulation potential

Not established.

### 12.4 Mobility in the ground

n.d.

### 12.5 Result of PBT and vPvB assessment

no evidence of PBT or vPvB properties

### 12.6 Other adverse effects

Do not allow in to enter in surface water or drains.  
Slightly hazardous to water.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Treatment of contaminated packaging

Empty containers for local recycling, recovery or waste disposal. Contaminated packaging is to be emptied optimally, they can then be reused after appropriate cleaning (water). Packaging which can not be cleaned must be disposed of as well as the substance.

#### Waste codes / waste designations according to EWC / AVV

The allocation of waste code numbers / waste names is according to AVV / EAV sector-



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and process-specific. The unused product can be disposed unter 14 06 03\* (EAV).

## Special precautions

n.d.

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## 14. Transport information

### 14.1 UN-No.:

1170

### 14.2 UN proper shipping name

#### ADR/RID

Ethanol, aqueous solution, conc. > 58 % by volume

#### IMDG-Code / ICAO-TI / IATA-DGR

Ethanol, aqueous solution, conc. > 58 % by volume

### 14.3 Transport hazard class:

3

### 14.4 Packaging group:

II

### 14.5 Danger to the environment

#### Identification of environmentally hazardous substances

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:  yes /  no

Marine Pollutant:  yes /  no

### 14.6 Special precautions for user

n.d.

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

Pollution category (X, Y or Z): n.d.

Ship type (1, 2 or 3): n.d.

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## 15. Regulatory information

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

#### EU regulations e.g.

**Regulation (EC) No 2037/2000 (substances which deplete the ozone layer):**

n.d.

**Regulation (EC) No 850/2004 (Persistent organic pollutants):**

n.d.

**Regulation (EC) No 689/2008 (Export and import of dangerous chemicals):**

n.d.

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**Regulation (EC) No 648/2004 (Detergents Regulation):**  
n.d.

**Restrictions according to Title VIII of Regulation (EC) 1907/2006:**  
n.d.

**Other relevant regulations**  
none

## 15.2 Chemical safety assessment

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

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## 16. Other information

**Changes to the last version:**

**Abbreviations:**

n.d. no data  
n.a. not applicable  
n.d. not determined

**Text of the dangers and / or safety instructions referred to in sections 2 to 15**

According to Regulation (EC) No 1272/2008

H225	Highly flammable liquid and vapour
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects
Flam. Liq. 2	Flammable liquids, category 2, H225
Skin Irrit. 2	Skin irritation, category 2; H315
Skin Sens. 1	Skin sensitization, category 1; H317
Aquatic Chronic 2	Aquatic Chronic; category 2, H411

**Training for employees**

n.d.

**Further information**

The particulars of Chapters 4 to 8 and 10 to 12 are partly not related to the use and the proper application of the product (see special / application information) but to the release of larger quantities in the case of accidents and irregularities. The information contained in this Safety Data Sheet is based on the knowledge available at the time of writing. The delivery specification can be found in the respective product leaflets. The description of the product only applies to health and safety requirements. This document does not constitute a guarantee for specific characteristics or specifications.