

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

**BENZY**  
MARKENPRODUKTE

Article No.: 34501030  
Print date: 11.07.2022  
Version: 1.0

Empire Clean Keeper 200 ml  
Revision date: 19.04.2022  
Issue date: 14.03.2022

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

**1.1. Product identifier**

Article No. (manufacturer/supplier) 34501030  
Trade name/designation Empire Clean Keeper 200 ml  
For Sneakers & Caps  
UFI: 86AU-P0PH-QS2F-D6TC

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

**Relevant identified uses**

Cleaner for textiles and shoes

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

**supplier (manufacturer/importer/downstream user/distributor)**

Benzy Markenprodukte GmbH

Zum Schacht 3

D-66287 Göttelborn

Telephone: +49 - (0)6825 / 89698 - 0

Telefax: +49 - (0)6825 / 89698 - 40

E-mail info@benzy-gmbh.de

**Department responsible for information:**

E-mail (competent person)

info@benzy-gmbh.de

**1.4. Emergency telephone number**

111 (England, Wales, Scotland)

**SECTION 2: Hazards identification**

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

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Aerosol 1 / H222

Aerosol

Extremely flammable aerosol.

Aerosol 1 / H229

Aerosol

Pressurised container: May burst if heated.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

**2.2. Label elements**

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

**Hazard pictograms**



**Danger**

**Hazard statements**

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H317

May cause an allergic skin reaction.

**Precautionary statements**

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read carefully and follow all instructions.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P260

Do not breathe aerosol.

P271

Use only outdoors or in a well-ventilated area.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501

Inhalt/Behälter entsprechend den örtlichen Vorschriften der Entsorgung zuführen.

**Hazard components for labelling**

not applicable

**Supplemental hazard information**

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not applicable

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Description** aqueous surfactant solution

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
204-065-8 115-10-6 603-019-00-8	01-2119472128-37-xxxx dimethyl ether compressed gas H280 / Flam. Gas 1 H220 Substance with a common (EC) occupational exposure limit value.	10 - 15
203-448-7 106-97-8 601-004-00-0	butane Flam. Gas 1 H220	5 - 10
200-857-2 75-28-5 601-004-00-0	isobutane compressed gas H280 / Flam. Gas 1 H220	1 - 2,5
500-213-3 68439-50-9	Fettalkohol, ethoxyliert Acute Tox. 4 H302 / Eye Dam. 1 H318 / Aquatic Chronic 3 H412	0,5 - 1

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

**4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

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

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limit values:**

dimethyl ether

Index No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

WEL, TWA: 766 mg/m<sup>3</sup>; 400 ppm

WEL, STEL: 958 mg/m<sup>3</sup>; 500 ppm

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butane  
Index No. 601-004-00-0 / EC No. 203-448-7 / CAS No. 106-97-8  
WEL, TWA: 1450 mg/m<sup>3</sup>; 600 ppm  
WEL, STEL: 1810 mg/m<sup>3</sup>; 750 ppm

**Additional information**

TWA : Long-term occupational exposure limit value  
STEL : short-term occupational exposure limit value  
Ceiling : peak limitation

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber with at least 0.7 mm thickness

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

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

**Appearance:**

**Physical state:** Liquid  
**Colour:** colourless

**Odour:** after mild fragrance

**Odour threshold:** not determined

**pH at 20 °C:** 5  
Method: DIN 19268

**Melting point/freezing point:** not determined

**Initial boiling point and boiling range:** -24 °C  
Source: dimethyl ether

**Flash point:** -60 °C  
Method: DIN 51755 part 1

**Evaporation rate:** not determined

**flammability**

**Burning time:** not determined

**Upper/lower flammability or explosive limits:**

**Lower explosion limit:** 1,4 Vol-%  
Source: butane

**Upper explosion limit:** 18,6 Vol-%  
Source: dimethyl ether

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<b>Vapour pressure at 20 °C:</b>	<b>754,0468 mbar</b>
<b>Vapour density:</b>	<b>not determined</b>
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,00 g/cm<sup>3</sup></b> Method: DIN EN ISO 15212-1
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>easily soluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Auto-ignition temperature:</b>	<b>235 °C</b> Source: dimethyl ether
<b>Decomposition temperature:</b>	<b>not determined</b>
<b>Viscosity at 20 °C:</b>	<b>&lt; 10 mPa*s</b> Method: DIN 53019
<b>Explosive properties:</b>	<b>not determined</b>
<b>Oxidising properties:</b>	<b>not determined</b>
9.2. <b>Other information</b>	
<b>Solid content:</b>	<b>0,17 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>20 weight-%</b>
<b>Water:</b>	<b>80 weight-%</b>
<b>Solvent separation test:</b>	<b>&lt; 3 weight-% (ADR/RID)</b>

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

No information available.

##### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

##### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

##### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

##### 10.5. Incompatible materials

not applicable

##### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

#### SECTION 11: Toxicological information

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

##### 11.1. Information on toxicological effects

###### Acute toxicity

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

###### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

###### Respiratory or skin sensitisation

2-methyl-2H-isothiazol-3-one

Skin, Guinea pig: ; Evaluation sensitising

Method: OECD 406

###### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

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#### **STOT-single exposure; 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.

#### **Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### **SECTION 12: Ecological information**

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

Do not allow to enter into surface water or drains.

#### **12.1. Toxicity**

2-methyl-2H-isothiazol-3-one

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 6 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1,68 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,157 mg/L (72 h)

Method: OECD 201

#### **Long-term Ecotoxicity**

2-methyl-2H-isothiazol-3-one

Fish toxicity, NOEC, Pimephales promelas (fathead minnow): 2,38 mg/L (28 d)

Method: OECD 210

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,55 mg/L (21 d)

Method: OECD 211

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,03 mg/L (72 h)

Method: OECD 201

#### **12.2. Persistence and degradability**

2-methyl-2H-isothiazol-3-one

Biodegradation: 4,1 d ; Evaluation Product is biodegradable.

Method: OECD 309

#### **12.3. Bioaccumulative potential**

2-methyl-2H-isothiazol-3-one

Partition coefficient: n-octanol/water: -0,32 ; Evaluation Does not accumulate in organisms.

Method: OECD 117

#### **Bioconcentration factor (BCF)**

2-methyl-2H-isothiazol-3-one

Bioconcentration factor (BCF), calculated.: 3,16

Method: literature value

#### **12.4. Mobility in soil**

2-methyl-2H-isothiazol-3-one

Activated sludge, Activated sludge, EC20: 2,8 mg/L (3 h)

Method: DIN 38412

Activated sludge, Activated sludge, EC50: 34,6 mg/L (3 h)

Method: DIN 38412

#### **12.5. Results of PBT and vPvB assessment**

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

#### **12.6. Other adverse effects**

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No information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

##### List of proposed waste codes/waste designations in accordance with EWC

150110\* packaging containing residues of or contaminated by dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

##### Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### SECTION 14: Transport information

#### 14.1. UN number

UN 1950

#### 14.2. UN proper shipping name

Land transport (ADR/RID):

DRUCKGASPACKUNGEN, entzündbar

Sea transport (IMDG):

AEROSOLS

Air transport (ICAO-TI / IATA-DGR):

Aerosols, flammable

#### 14.3. Transport hazard class(es)

2.1

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

#### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

##### Further information

##### Land transport (ADR/RID)

tunnel restriction code

D

##### Sea transport (IMDG)

EmS-No.

F-D, S-U

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### SECTION 15: Regulatory information

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

##### EU legislation

##### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 179,608

##### National regulations

##### Restrictions of occupation

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

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

#### 15.2. Chemical Safety Assessment

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

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**SECTION 16: Other information**

**Full text of classification in section 3:**

compressed gas / H280	Gases under pressure	Contains gas under pressure; may explode if heated.
Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aerosol 1	Aerosol	On basis of test data.
Aerosol 1	Aerosol	On basis of test data.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.