


HERWE MOSKIT-SPRAY

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

- 1.1 Product identifier:**
HERWE MOSKIT-SPRAY
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Use of the substance/mixture
biocide – insect repellent
BAuA-No N-54816
- 1.3 Details of the supplier:**
HERWE GmbH
Kleines Feldlein 16-20
D-74889 Sinsheim
Tel. +49 7261 9281-0
Fax + 49 7261 9281-20/-30
info@herwe.de
www.herwe.de
- 1.4 Emergency telephone number:**
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Charité - Universitätsmedizin Berlin
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Haus VIII, UG
Hindenburgdamm 30
D-12203 Berlin
+49(0)30/30686 700, Internat. INFOTRAC +1 3523233500
- Schweizerischen Toxikologischen Informationszentrum (STIZ) Tel. 145
- Vergiftungsinformationszentrale (VIZ) Österreich: +43 406 43 43

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**
Classification according to Regulation (EC) No. 1272/2008 [CLP]:
- Flam. Liq. 3, H226 – Flammable liquids: Category 3, Flammable liquid and vapour
- 2.2 Label elements**
Labelling according to Regulation (EC) 1272/2008 [CLP]
- Hazard pictograms:**
- 

Flame (GHS02)
- Signal word:** Warning
- Hazard statements:**
H226 Flammable liquid and vapour.
- Precautionary statements**
- | | |
|------|---|
| P102 | Keep out of the reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |

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SECTION 2: Hazards identification

P271 Nur im Freien oder in gut belüfteten Räumen verwenden.
P333+P313 Bei Hautreizung oder -ausschlag: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.
P403+P235 An einem gut belüfteten Ort aufbewahren. Kühl halten.
P501 Inhalt/Behälter der Problemabfallentsorgung zuführen.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains 4-tert-butylcyclohexyl acetate. May produce an allergic reaction. Container to be hazardous or special waste collection point

2.3 Other hazards None

SECTION 3: Composition/information on ingredients

3.1 Substances: This product is a mixture.

3.2 Mixtures

Hazardous ingredients

ETHANOL ; REACH No. : 01-2119457610-43 ; EC No. : 200-578-6 ; CAS No. : 64-17-5

Weight fraction : ≥ 25 - < 30 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

4-tert-butylcyclohexyl acetate ; REACH No. : 01-2119976286-24-XXXX ; EC No. : 250-954-9 ; CAS No. : 32210-23-4

Weight fraction : $\geq 0,1$ - $< 0,5$ %

Classification 1272/2008 [CLP] : Skin Sens. 1B ; H317

Further ingredients

ETHANOL ; REACH No. : 01-2119457610-43 ; EC No. : 200-578-6 ; CAS No. : 64-17-5

Weight fraction : ≥ 25 - < 30 %

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

Following inhalation

Provide fresh air. If unconscious place in recovery position and seek medical advice.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If swallowed, immediately drink: Water Call a physician immediately.

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SECTION 4: First aid measures

- 4.2 **Most important symptoms and effects, both acute and delayed**
Headache Nausea Drowsiness
- 4.3 **Indication of any immediate medical attention and special treatment needed**
None

SECTION 5: Firefighting measures

- 5.1 **Extinguishing media**
Suitable extinguishing media:
Carbon dioxide (CO₂) Extinguishing powder Water mist alcohol resistant foam Co-ordinate fire-fighting measures to the fire surroundings.
Unsuitable extinguishing media
Full water jet Strong water jet
- 5.2 **Special hazards arising from the substance or mixture**
Thermal decomposition can lead to the escape of irritating gases and vapours.
- 5.3 **Advice for firefighters**
Special protective equipment for firefighters
Full protection suit Use suitable breathing apparatus.
- 5.4 **Additional information**
Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
See protective measures under point 7 and 8.
- 6.2 **Environmental precautions**
Do not allow to enter into surface water or drains.
- 6.3 **Methods and material for containment and cleaning up**
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Do not rinse down with water.
- 6.4 **Reference to other sections**
Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**
Handle and open container with care. Use only in well-ventilated areas. Avoid: generation/formation of aerosols
- Protective measures**
Measures to prevent fire
Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Always close containers tightly after the removal of product.

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SECTION 7: Handling and storage

- 7.2 Conditions for safe storage, including any incompatibilities**
Protect against UV-radiation/sunlight Keep container tightly closed and in a well-ventilated place. Do not expose to temperatures above 50 °C.
- Hints on joint storage**
Storage class (TRGS 510) : 3
- Further information on storage conditions**
Keep away from food, drink and animal feeding stuffs.
- 7.3 Specific end use(s)**
None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 200 ppm / 380 mg/m³
Peak limitation : 4(II)
Remark : Y
Version : 29.03.2019

POLYETHYLENE GLYKOLS 200 - 400 ; CAS No. : 25322-68-3

Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 1000 mg/m³
Peak limitation : 8(II)
Remark : Y
Version : 29.03.2019

DNEL-/PNEC-values

DNEL/DMEL

Limit value type : DNEL/DMEL (Consumer) (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 114 mg/m³

Limit value type : DNEL/DMEL (Consumer) (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 206 mg/kg
Safety factor : day(s)

Limit value type : DNEL/DMEL (Consumer) (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 87 mg/kg
Safety factor : day(s)

Limit value type : DNEL/DMEL (Worker) (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 950 mg/m³

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SECTION 8: Exposure controls/personal protection

Limit value type :	DNEL/DMEL (Worker) (ETHANOL ; CAS No. : 64-17-5)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	343 mg/kg
Safety factor :	day(s)

PNEC

Limit value type :	PNEC (Aquatic, freshwater) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	0,96 mg/l
Limit value type :	PNEC (Aquatic, marine water) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	0,79 mg/l
Limit value type :	PNEC (Sediment, freshwater) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	3,6 mg/kg
Limit value type :	PNEC (Sediment, marine water) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	2,9 mg/kg
Limit value type :	PNEC (Soil) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	0,63 mg/l
Limit value type :	PNEC (Secondary poisoning) (ETHANOL ; CAS No. : 64-17-5)
Limit value :	0,38 g/kg

8.2 Exposure controls

Eye/face protection

Eye glasses with side protection DIN EN 166

Skin protection

Hand protection

Wash hands before breaks and after work. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material : CR (polychloroprene, chloroprene rubber) Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber)

Required properties : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Breakthrough time (maximum wearing time): 480 min : 480 min

Thickness of the glove material: 3 mm : ≥ 3 mm

Body protection

Protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Odour:	characteristic

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SECTION 9: Physical and chemical properties

9.1 Safety characteristics

Melting point/freezing point :		not determined	
Initial boiling point and boiling range :	(1013 hPa)	>65°C	
Decomposition temperature :		not determined	
Flash point :		26,7 °C	
Auto-ignition temperature :		not applicable	
Lower explosion limit :		not applicable	
Upper explosion limit :		not applicable	
Vapour pressure :	(50 °C)	No data available	
Density :	(20 °C)	0,974 - 0,98 g/cm ³	
Solvent separation test :	(20 °C)	0 %	
Water solubility :	(20 °C)	0100 Wt %	
Fat solubility :	(20 °C)	Not determined.	
pH :		6 - 7	
log P O/W :		not determined	
Flow time :	(20 °C)	< 20 s	DIN-cup 4 mm
Viscosity :	(20 °C)	< 20 mPa*s	
Odour threshold :		not determined	
Relative vapour density :	(20 °C)	not determined	
Vapourisation rate :		not determined	
Maximum VOC content (EC) :		28,7 Wt %	
Flammable solids :		Not applicable.	
Flammable gases :		Not applicable.	
Oxidising liquids :		Not relevant.	
Explosive properties :		Not applicable.	

9.2 Other information

None.

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Heat. UV-radiation/sunlight

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

No data available.

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SECTION 11: Toxicological information

Acute dermal toxicity

No data available.

Acute inhalation toxicity

No data available.

Corrosion

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitisation

No information available. No data available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT- and vPvB-assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Product/packaging disposal

Waste codes/waste designations according to EWC/AVV

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Additional information

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

SECTION 14: Transport information

14.1 UN-number

UN 1170

14.2 UN proper

Shipping name

Land transport (ADR/RID)

ETHANOL, SOLUTION

Sea transport (IMDG)

ETHANOL, SOLUTION

Air transport (ICAO-TI / IATA-DGR)

ETHANOL, SOLUTION

14.3 Transport-

hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : LQ 5 | · E 1
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-D
Special provisions : LQ 5 | · E 1
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

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SECTION 14: Transport information

- 14.5 Environmentals hazards**
Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No
- 14.6 Special precautions for users**
None
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- EU legislation**
Regulation (EU) No. 528/2012 on biocides
- Authorisations and/or restrictions on use**
Restrictions on use
Use restriction according to REACH annex XVII, no. : 3, 40
- National regulations**
Water hazard class (WGK)
Classification according to AwSV Class : 1 (Slightly hazardous to water)
- 15.2 Chemical safety assessment**
No information available.

SECTION 16: Other information

- 16.1 Indication of changes**
None
- 16.2 Abbreviations and acronyms**
None
- 16.3 Key literature references and sources for data**
None
- 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**
Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
- 16.5 Relevant H- and EUH-phrases (Number and full text)**
H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
- 16.6 Training advice**
None
- 16.7 Additional information**
None

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.