

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 9 DESIN FEKT1 epple-disinfect hand  
Print date 11.07.2023 Revision date 11.07.2023  
Version 4.5 11.07.2023

EN  
Page 1 / 7

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

**1.1. Product identifier**

Article No. (manufacturer/supplier): 9 DESIN FEKT1  
Trade name/designation epple-disinfect hand  
UFI: XUPN-UF02-J7RC-N81H

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

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

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

E. Epple & Co. GmbH  
Hertzstr. 8 Telephone: +49 7032 / 9771-17  
71083 Herrenberg Telefax: +49 7032 / 9771-60  
www.epple-chemie.de

**Department responsible for information:**

laboratory  
E-mail (competent person) labor@epple-chemie.de

**1.4. Emergency telephone number**

Information center against poisoning Bonn +49 (0) 228 / 19 240 (Advice in German)

**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].

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.

**2.2. Label elements** \*

The product is classified and labelled according to EC directives or corresponding national laws.

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

**Hazard pictograms**



**Danger**

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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. Immediately call a POISON CENTER or doctor/physician.  
P501 Dispose of contents / container to a certified waste management company.

**Hazard components for labelling**

not applicable

**Supplemental hazard information**

not applicable

**2.3. Other hazards**

No information available.

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

**3.2. Mixtures** \*

**Description**

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

**Safety Data Sheet**  
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Article No.: 9 DESIN FEKT1 epple-disinfect hand  
Print date 11.07.2023 Revision date 11.07.2023  
Version 4.5 11.07.2023

EN  
Page 2 / 7

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
200-578-6	01-2119457610-43	
64-17-5	Ethanol	74,9 - 100
603-002-00-5	Eye Irrit. 2 H319 / Flam. Liq. 2 H225	

**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 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**

When in doubt or if symptoms are observed, get medical advice.

**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

**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. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

**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**

**Safety Data Sheet**  
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Article No.: 9 DESIN FEKT1 epple-disinfect hand  
Print date 11.07.2023 Revision date 11.07.2023  
Version 4.5 11.07.2023

EN  
Page 3 / 7

**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.

**Further information**

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

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

**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 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden.

**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**

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

TWA: 1920 mg/m<sup>3</sup>; 1000 ppm

**Additional information**

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

**DNEL:**

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

DNEL long-term dermal (systemic), Workers: 343 mg/kg bw/day

DNEL acute inhalative (local), Workers: 1900 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 950 mg/m<sup>3</sup>

**PNEC:**

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

PNEC aquatic, freshwater: 0,96 mg/L

PNEC aquatic, marine water: 0,79 mg/L

PNEC aquatic, intermittent release: 2,75 mg/L

PNEC sediment, freshwater: 3,6 mg/kg d.w.

PNEC sediment, marine water: 2,9 mg/kg d.w.

PNEC, soil: 0,63 mg/kg food

PNEC Secondary Poisoning: 0,72 mg/kg food

**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**

Respiratory protection is not necessary if room is well ventilated.

**Hand protection**

Hand protection is not required..

**Eye/face protection**

Eye protection: not required.

**Body protection**

Body protection: not required.

**Safety Data Sheet**  
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according to Regulation (EU) 2020/878



Article No.: 9 DESIN FEKT1 epple-disinfect hand  
Print date 11.07.2023 Revision date 11.07.2023  
Version 4.5 11.07.2023

EN  
Page 4 / 7

**Protective measures**

**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 \*

<b>Physical state:</b>	<b>Liquid</b>
<b>Appearance:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>translucent</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>not applicable</b>
<b>Melting point/freezing point:</b>	<b>-114 °C</b> Source: Ethanol
<b>Initial boiling point and boiling range:</b>	<b>78 °C</b> Source: Ethanol
<b>Flammability:</b>	<b>not applicable</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>3,1 Vol-%</b> Source: Ethanol
<b>Upper explosion limit:</b>	<b>27,7 Vol-%</b> Source: Ethanol
<b>Flash point:</b>	<b>12 °C</b>
<b>Auto-ignition temperature:</b>	<b>400 °C</b> Source: Ethanol
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>pH at 20 °C:</b>	<b>not applicable</b>
<b>Viscosity at 20 °C:</b>	<b>keine Angabe</b>
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>completely miscible</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>58 mbar</b> Source: Ethanol
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>0,83 g/cm<sup>3</sup></b>
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>

9.2. Other information

**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**

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

not applicable

**Safety Data Sheet**  
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Article No.: 9 DESIN FEKT1 epple-disinfect hand  
Print date 11.07.2023 Revision date 11.07.2023  
Version 4.5 11.07.2023

EN  
Page 5 / 7

**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**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008** \*

**Acute toxicity**

Ethanol

oral, LD50, Rat: 10470 mg/kg

Method: OECD 401

inhalative (vapours), LC50, Rat: 116,9 mg/L (4 h)

Method: OECD 403

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

Causes serious eye irritation.

**Respiratory or skin sensitisation**

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

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

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

**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.

**Remark**

There is no information available on the preparation itself .

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No information available.

**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** \*

Ethanol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 14200 mg/L (96 h)

Method: US EPA method E03-05

Algae toxicity, ErC50, Chlorella vulgaris: 275 mg/L (72 h)

Method: OECD 201

Daphnia toxicity, LC50, Ceriodaphnia dubia: 5012 mg/L (48 h)

Method: ASTM E729-80

Fish toxicity, EC50, Pimephales promelas (fathead minnow): 12,9 g/L (96 h)

Method: US EPA method E03-05

Algae toxicity, ErC50, Chlorella vulgaris: 675 mg/L (96 h)

Method: OECD 201

**Long-term Ecotoxicity**

**Safety Data Sheet**  
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according to Regulation (EU) 2020/878



Article No.: 9 DESIN FEKT1 epple-disinfect hand  
Print date 11.07.2023 Revision date 11.07.2023  
Version 4.5 11.07.2023

EN  
Page 6 / 7

Ethanol  
Fish toxicity, NOEC, Danio rerio : 250 mg/L (120 h)  
Method: OECD 212  
Daphnia toxicity, NOEC, Ceriodaphnia dubia: 9,6 mg/L (10 d)  
Daphnia toxicity, LC50, Ceriodaphnia dubia: 1806 mg/L (10 d)  
Daphnia toxicity, LC50, Daphnia magna (Big water flea): 454 mg/L (9 d)

**12.2. Persistence and degradability** \*

Ethanol  
Biodegradation: 84 % (20 d)

**12.3. Bioaccumulative potential** \*

Ethanol  
Partition coefficient: n-octanol/water: -0,77

**12.4. Mobility in soil**

Toxicological data are not available.

**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. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

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**

140603\* other solvents and solvent mixtures

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

**Appropriate disposal / Package**

**Dispose of packaging and contaminated filters at a official hazardous waste incinerator facility.**

Recommendation:

Waste codes / waste designations according to EWC / AVV: 15 01 10\*

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1170

**14.2. UN proper shipping name**

Land transport (ADR/RID): Ethanol  
Sea transport (IMDG): ETHANOL (ETHYL ALCOHOL)  
Air transport (ICAO-TI / IATA-DGR): Ethanol

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

3

**14.4. Packing group**

II

**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

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Article No.: 9 DESIN FEKT1 epple-disinfect hand  
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Version 4.5 11.07.2023

EN  
Page 7 / 7

**Further information**

**Land transport (ADR/RID)**

Tunnel restriction code D/E

**Sea transport (IMDG)**

EmS-No. F-E, S-E

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

**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): 668

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

**Substance/product listed in the following inventories:**

AICS listed  
DSL listed  
EHS no information  
IECSC listed  
KECI listed  
MITI listed  
NZLoC no information  
PICCS listed  
TCSI no information  
TSCA listet

**15.2. Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

EC No.	Designation	REACH No.
CAS No. 200-578-6 64-17-5	Ethanol	01-2119457610-43

**SECTION 16: Other information**

**Full text of classification in section 3**

Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation.  
Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour.

**Classification procedure**

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

Flam. Liq. 2 Flammable liquids On basis of test data.  
Eye Irrit. 2 Serious eye damage/eye irritation Calculation method.

**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.

\* Data changed compared with the previous version