

SAFETY DATA SHEET (EC 1907/2006)

Waxit

Version: 2.0 / EN REF: 5325180013
Revision date: 06.01.2022
Date of issue: 15.07.2021
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emwerk

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

1.1. Product identifier

Trade name Waxit
REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

Company emwerk GmbH
Bürgermeister-Otto-Knapp-Straße 49
D-49163 Bohmte
Telephone +49 (0)5471/9515010
Telefax +49 (0)7150/34113
Email address sales@emwerk.de

1.4. Emergency telephone number

Emergency information +49 (0)5471/9515010 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI

Flammable liquids Category 2 H225

2.2. Label elements

Labelling as per (EU) 1272/2008

Statutory basis EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI

hazard-defining component(s) (GHS)

- ethanol; ethyl alcohol

Hazard pictograms



Signal word Danger

Hazard statement H225 - Highly flammable liquid and vapour.

Precautionary statement P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.

2.3. Other hazards

Vapours can form explosive mixtures with air.
A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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SECTION 3: Composition/information on ingredients

3.1. Substances

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3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• ethanol; ethyl alcohol		75% - 90%	
CAS-No.	64-17-5	EC-No.	200-578-6
Flammable liquids		Category 2	H225
• acetone; propan-2-one; propanone		0.1% - 1%	
CAS-No.	67-64-1	EC-No.	200-662-2
Flammable liquids		Category 2	H225
Eye irritation		Category 2	H319
Specific Target Organ Toxicity - Single exposure		Category 3	H336
• methyl acetate		0.1% - 1%	
CAS-No.	79-20-9	EC-No.	201-185-2
Flammable liquids		Category 2	H225
Eye irritation		Category 2	H319
Specific Target Organ Toxicity - Single exposure		Category 3	H336
• Ethylacetate		1% - 5%	
CAS-No.	141-78-6	EC-No.	205-500-4
Flammable liquids		Category 2	H225
Serious eye damage/eye irritation		Category 2	H319
Specific Target Organ Toxicity - Single exposure		Category 3	H336
• glycerol		5% - 10%	
CAS-No.	56-81-5	EC-No.	200-289-5

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Take off all contaminated clothing immediately.

Inhalation

Move victims into fresh air.

Obtain medical attention.

Skin contact

Wash off with soap and plenty of water.

Obtain medical attention.

Eye contact

Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution.

Consult an ophthalmologist.

Ingestion

Call a physician immediately.

Clean mouth with water and drink afterwards plenty of water.

Ingest activated charcoal.

Do NOT induce vomiting.

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Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

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

Symptoms

None known

Hazards

None known

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

No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: water spray
Alcohol-resistant foam
CO₂
dry powder

Unsuitable extinguishing media: high volume water jet

5.2. Special hazards arising from the substance or mixture

Formation of flammable or explosive vapour/air mixtures possible.
In case of fire cool endangered containers with water.

5.3. Advice for firefighters

Employ protective equipment commonly used in the event of fire.
In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.
Do not inhale vapours / aerosols.
Ensure there is sufficient ventilation.

6.2. Environmental precautions

Introduction into soil, natural water bodies or sewerage must be prevented.

6.3. Methods and material for containment and cleaning up

Dilute with plenty of water.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.
Disposal considerations; see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well-ventilated areas.
Ensure suitable suction/aeration at the work place and with operational machinery.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Formation of flammable or explosive vapour/air mixtures possible.
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

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**German storage class**

3 - Flammable liquids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

• ethanol; ethyl alcohol			
CAS-No.	64-17-5	EC-No.	200-578-6
Control parameters	1000 ppm 1920 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
• acetone; propan-2-one; propanone			
CAS-No.	67-64-1	EC-No.	200-662-2
Control parameters	500 ppm 1210 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	1500 ppm 3620 mg/m3		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	500 ppm 1210 mg/m3 Indicative		Time Weighted Average (TWA):(EU ELV)
• methyl acetate			
CAS-No.	79-20-9	EC-No.	201-185-2
Control parameters	200 ppm 616 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	250 ppm 770 mg/m3		Short Term Exposure Limit (STEL):(EH40 WEL)
• Ethylacetate			
CAS-No.	141-78-6	EC-No.	205-500-4
Control parameters	400 ppm		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	200 ppm		Time Weighted Average (TWA):(EH40 WEL)
• glycerol			
CAS-No.	56-81-5	EC-No.	200-289-5
Control parameters	10 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Mist.		

8.2. Exposure controls**Engineering measures**

Ensure that there is suitable air extraction / ventilation in the workplace or at the working machines. If necessary extractor suction on specific objects., Do not breathe solvent vapours.

Personal protective equipment**Respiratory protection**

If workplace exposure limit is exceeded apply Respirator with brown A-type filter.

Hand protection

Wear protective gloves made of the following materials: solvent-resistant material.

Glove material butyl-rubber

Material thickness 0.5 mm

Break through time 60 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

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The suitability for a specific workplace should be discussed with the producers of the protective gloves., The exact break through time can be obtained from the protective glove producer and this has to be observed.

Preventive skin protection, Use barrier cream regularly.

Eye/face protection

Safety glasses with side-shields

Skin and body protection

Avoid contaminating clothes with product., Solvent-resistant apron

Hygiene measures

No eating, drinking, smoking, or snuffing tobacco at work., Wash hands before breaks and at the end of workday., Do not breathe vapour.

Protective measures

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form liquid

Colour blue

Odour aromatic

Odour threshold: no data available

pH 7 Medium: Water

Melting point/range < -100 °C

Boiling point/range < 78 °C

Flash point 19 °C

Evaporation rate no data available

Flammability (solid, gas) Flammable

Lower explosion limit 3.5 %(V)

tested substance:
Ethanol

Upper explosion limit 15 %(V)
tested substance:
Ethanol

Vapour pressure no data available

Density 0.81 g/cm³

Miscibility in water completely miscible

Partition coefficient: n-
octanol/water no data available

Autoinflammability Not capable of spontaneous combustion or heating.

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Thermal decomposition	no data available
Viscosity, dynamic	no data available
Explosiveness	no data available
Oxidizing properties	no data available

9.2. Other information

Other information No further physicochemical data were determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixture with air.

10.2. Chemical stability

Under normal conditions: stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Heating can release vapours which can be ignited., In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

Keep away from sources of ignition - No smoking.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity	LD50 Rat: 7060 mg/kg Test substance: Ethanol
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Acute inhalation toxicity	no data available
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Acute dermal toxicity	no data available
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Skin irritation	no data available
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Eye irritation	no data available
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Sensitization	no data available
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Repeated dose toxicity	no data available
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Mutagenicity assessment	no data available
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Carcinogenicity	No data available
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Toxicity to reproduction	No data available
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**SECTION 12: Ecological information****12.1. Toxicity**

No ecotoxicological studies are available.

Toxicity to fish	LC50 <i>Leuciscus idus melanotus</i> : 8140 mg/l
	Test substance: Ethanol literature
	LC50 <i>Leuciscus idus melanotus</i> : 270 mg/l
	Test substance: Ethylacetate literature
Toxicity in aquatic invertebrates	EC 3 <i>Daphnia magna</i> : 7800 mg/l
	Test substance: Ethanol
	EC50 <i>Daphnia magna</i> : 2500 mg/l
	Test substance: Ethylacetate
Toxicity to algae	TGK <i>Scenedesmus quadricauda</i> : 15 mg/l moderate
	Test substance: Ethylacetate literature
Toxicity to bacteria	EC 10 <i>Pseudomonas putida</i> : 6500 mg/l
	Test substance: Ethanol literature
	EC 10 <i>Pseudomonas putida</i> : 650 mg/l
	Test substance: Ethylacetate literature

12.2. Persistence and degradability

Biodegradability Result: easily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility No data available

12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information Introduction into soil, natural water bodies or sewerage must be prevented.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information

Transport on land (ADR/RID/GGVSEB)

14.1. UN number: UN 1170
14.2. UN proper shipping name: ETHANOL SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
ADR: Tunnel Restriction Code: (D/E)
ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB

Inland waterway transport (ADN/GGVSEB (Germany))

14.1. UN number: UN 1170
14.2. UN proper shipping name: ETHANOL SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

14.1. UN number: UN 1170
14.2. UN proper shipping name: Ethanol solution
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
IATA-C: ERG-Code 3L, Maximum Net Quantity per Package 60 L
IATA-P: ERG-Code 3L, Maximum Net Quantity per Package 5 L

Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number: UN 1170
14.2. UN proper shipping name: ETHANOL SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: No
EmS: F-E,S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

SECTION 15: Regulatory information

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

National legislation

employment restriction

Note employment restrictions for pregnant and lactating women., Note employment restrictions for minors.

15.2. Chemical safety assessment

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Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

SECTION 16: Other information

Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Flam. Liq., 2 , H225	

Relevant H phrases from chapter 3

H225 : Highly flammable liquid and vapour.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods

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ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization