

Safety data sheet
 according to 1907/2006/EC, Article 31

Printing date 24.07.2023

Version number 6 (replaces version 5)

Revision: 24.07.2023

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

- **1.1 Product identifier**
 - **Trade name: FERMITOL**
 - **UFI:** R710-80EW-800M-3SFE
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 No further relevant information available.
 - **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
 Fermit GmbH
 Zur Heide 4,
 D- 53560 Vettelschoß
 www.fermit.de
 - **Informing department:**
 Tel.: +49 (0) 2645-2207
 Fax: +49 (0) 2645-3113
 Email: info@fermit.de
- **1.4 Emergency telephone number:**
 Phone +49 5382 71-0
 (Office hours 09:00 - 17:00)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
 ethyl acetate
 propan-2-ol

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- **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P280 Wear eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Liquid polyester-based sealant and adhesive.

- **Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-X	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25 - 50%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-X	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	≥ 2.5 - < 10%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact**

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

Call a doctor immediately.

- **After swallowing** Instantly call for doctor.

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

No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents**
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
 - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.
 - **Additional information** Cool endangered containers with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:**
Store in cool location.
Keep container tightly closed.
 - **Information about storage in one common storage facility:** Store away from foodstuffs.
 - **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store container in a well ventilated position.
- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

141-78-6 ethyl acetate

IOELV (European Union)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
WEL (Great Britain)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm

67-63-0 propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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· DNELs

141-78-6 ethyl acetate

Oral	DNEL (consumer, long-term, systemic)	4.5 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	63 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	37 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, systemic)	1,468 mg/m ³ (human)
	DNEL (worker, long-term, systemic)	734 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	734 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	367 mg/m ³ (human)
	DNEL (worker, short-term, local)	1,468 mg/m ³ (human)
	DNEL (worker, long-term, local)	734 mg/m ³ (human)
	DNEL (consumer, short-term, local)	734 mg/m ³ (human)
	DNEL (consumer, long-term, local)	367 mg/m ³ (human)

67-63-0 propan-2-ol

Oral	DNEL (consumer, short-term, systemic)	51 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	26 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	888 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	319 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, systemic)	1,000 mg/m ³ (human)
	DNEL (worker, long-term, systemic)	500 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	178 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	89 mg/m ³ (human)

· PNECs

141-78-6 ethyl acetate

PNEC aqua (freshwater)	0.24 mg/L (.)
PNEC aqua (marine water)	0.024 mg/L (.)
PNEC STP - Sewage Treatment Plant	650 mg/L (.)
PNEC soil	0.148 mg/kg soil dw (.)
PNEC sediment (freshwater)	1.15 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.115 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	1.65 mg/L (.)
PNEC oral	0.2 mg/kg food (.)

- **Additional information:** The lists that were valid during the compilation were used as basis.

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· 8.2 Exposure controls

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

· Breathing equipment:

Breathing apparatus approved for this purpose should be worn when solvent concentration exceeds the maximum workplace concentration values.

Short term filter device:

Filter Type A.

· Hand protection

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Recommended thickness of the material: ≥ 0.7 mm

· Penetration time of glove material

In case of a layer thickness of 0.7 mm the penetration time is longer than 120 minutes.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

· Eye/face protection



Tightly sealed safety glasses.

· Body protection:



Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Fluid

· Colour:

Colourless

· Odour:

Aromatic

· Melting point/freezing point:

Not determined

· Boiling point or initial boiling point and boiling range

Not determined

· Lower and upper explosion limit

· Lower:

2.1 Vol %

· Upper:

11.5 Vol %

· Flash point:

5 °C

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<ul style="list-style-type: none"> · Auto-ignition temperature: 425 °C (Ethylacetat) · SADT · Viscosity: <ul style="list-style-type: none"> · Kinematic viscosity at 20 °C > 700 mm²/s (DIN 53211) · Solubility <ul style="list-style-type: none"> · Water: Not miscible or difficult to mix · Vapour pressure at 20 °C: 97 hPa · Density and/or relative density <ul style="list-style-type: none"> · Density at 20 °C 1.3 g/cm³ · Particle characteristics No further information.
<ul style="list-style-type: none"> · 9.2 Other information · Appearance: <ul style="list-style-type: none"> · Form: Fluid · Important information on protection of health and environment, and on safety. <ul style="list-style-type: none"> · Self-inflammability: Product is not selfigniting. · Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible. · Solvent separation test 0 % (Kl.3/ADR) · Solvent content: <ul style="list-style-type: none"> · Organic solvents: < 60 % · VOC EU · Water: 0.0 %
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Highly flammable liquid and vapour. · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void · Desensitised explosives Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

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- **10.6 Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

141-78-6 ethyl acetate

Oral	LD50	4,100 mg/kg (mouse) 6,100 mg/kg (rat)
Dermal	LD50	> 20,000 mg/kg (rabbit)
Inhalative	LC50	200 mg/l/1h (rat) LC50 > 22.5 mg/l/6h (rat) (40 CFR Part 799)

67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (rat) (OECD 401)
Dermal	LD50	13,400 mg/kg (rabbit)
Inhalative	LC50	30 mg/l/4h (rat) Vapour

- **Skin corrosion/irritation**
Longer or repeated contact with the product reduces the natural reepithelization of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **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.
- **Additional toxicological information:**
Ethyl acetate may cause mucous membrane irritation, loss of appetite and headache.
At high concentrations, salivation, nausea, vomiting, narcosis and respiratory paralysis may occur.

- **Repeated dose toxicity**

141-78-6 ethyl acetate

Oral	NOAEL (90d)	900 mg/kg bw/day (rat) (EPA OTS 795.2600)
Inhalative	NOAEC (90d)	1.28 mg/m ³ (rat) (EPA OTS 798.2450) Vapour

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

141-78-6 ethyl acetate

EC50 (static)	3,090 mg/l/24h (Daphnia magna) (DIN 38412pt 11)
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EC50 (static)	5,600 mg/l/48h (Scenedesmus subspicatus) (DIN 38 412, Part 9)
LC50 (dynamic)	230 mg/l/96h (Pimephales promelas) (US EPA method E03-05)
67-63-0 propan-2-ol	
EC50 (static)	> 10,000 mg/l/24h (Daphnia magna) (OECD202)
LC50 (dynamic)	9,640 mg/l/96h (Pimephales promelas) (OECD203)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
 - **Additional ecological information:**
 - **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
The waste code numbers mentioned are recommendations based on the probable use of the product.
Must be specially treated under adherence to official regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- **Uncleaned packagings:**
 - **Recommendation:**
Cleaned packing materials have to be admitted to local recycling circuits.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR/RID, IMDG, IATA	UN1133
· 14.2 UN proper shipping name	
· ADR/RID	1133 ADHESIVES

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· **IMDG, IATA**

ADHESIVES

· **14.3 Transport hazard class(es)**· **ADR/RID**

· **Class**
· **Label**

3 (F1) Flammable liquids.
3

· **IMDG, IATA**

· **Class**
· **Label**

3 Flammable liquids.
3

· **14.4 Packing group**· **ADR/RID, IMDG, IATA**

III

· **14.5 Environmental hazards:**· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Kemler Number:**

33

· **EMS Number:**

F-E,S-D

· **Stowage Category**

A

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

Not applicable.

· **Transport/Additional information:**· **ADR/RID**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

D/E

· **IMDG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 1133 ADHESIVES, 3, III

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SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing data specification sheet:**

▶ **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

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- **Version number of previous version:** 5

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· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

EU