

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.03.2021

Version number 3


Revision: 04.03.2021

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


- **1.1 Product identifier**
- **Trade name:** GERÜSTCLEANER (FRAME CLEANER)
- **Article number:** 702205
- **CAS Number:**
141-78-6
- **EC number:**
205-500-4
- **Index number:**
607-022-00-5
- **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:** Degreaser
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SHERA Werkstoff-Technologie GmbH & Co. KG
Espohlstraße 53
D-49448 Lemförde
GERMANY
sdb@shera.de
+ 49 (0) 54 43 – 99 33 – 0
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**
Gif tinformationszentrum-Nord: +49 (0) 551-19240
(Information in german or english)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008:**
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
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 substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms:**



GHS02



GHS07
- **Signal word:** Danger
- **Hazard-determining components of labelling:**
ethyl acetate
- **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 dust / fume / gas / mist / vapours / spray.
P280	Wear protective gloves / eye protection.

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- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- 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+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

- **Additional information:**

- EUH066 Repeated exposure may cause skin dryness or cracking.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment:**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Substances**

- **CAS No. Description**

- 141-78-6 ethyl acetate

- **Identification number(s)**

- **EC number:** 205-500-4

- **Index number:** 607-022-00-5

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

- Take affected persons out of danger area and lay down.

- Do not leave affected persons unattended.

- Personal protection for the First Aider.

- **After inhalation:**

- Supply fresh air; consult doctor in case of complaints.

- No special measures required.

- **After skin contact:**

- Wash with water and soap.

- Skin degreasing possible after prolonged contact, use skin protection cream after prolonged skin contact.

- If skin irritation continues, consult a doctor.

- **After eye contact:**

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

- Rinse out mouth and then drink plenty of water.

- Do not induce vomiting. Risk of aspiration!

- Seek immediate medical advice.

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

- Headache.

- Dizziness.

- Dizziness.

- Unconsciousness.

- Nausea.

- Gastric or intestinal disorders.

- **Hazards**

- Danger of pulmonary oedema.

- If swallowing results in vomiting, product may be aspirated into lungs, which can lead to chemical pneumonia or suffocation.

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

Later observation for pneumonia and pulmonary oedema.
May cause drowsiness or dizziness.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet.

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

Danger – due to high vapour pressure, rupture of containers is possible if temperature rises.

Carbon monoxide (CO).

Carbon dioxide (CO₂).

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Remove containers from danger area if this is possible without risk to yourself or others.

SECTION 6: Accidental release measures

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

Ensure adequate ventilation.

Keep away from ignition sources.

Do not breathe vapour.

Use respiratory protective device against the effects of fumes / dust / aerosol.

Avoid contact with skin and eyes.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions**

Suppress gases / fumes / haze with water spray.

Do not allow to enter sewers / surface or ground water.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, universal binding agents).

Send for recovery or disposal in suitable receptacles.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· **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 disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good interior ventilation, especially at floor level (Fumes are heavier than air).

Avoid contact with eyes.

Avoid prolonged / repeated skin contact.

Do not breathe vapours.

Do not exceed the occupational exposure limit(s) (OEL) and / or any other exposure limits.

Avoid splashes or spray in enclosed areas.

Restrict the quantity stored at the work place.

· **Information about fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may form in empty receptacles.

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- Do not spray onto a naked flame or any incandescent material.
- Danger of explosion if fluid enters the sewage system.
- Use explosion-proof apparatus / fittings and spark-proof tools.
- Emergency cooling must be available in case of nearby fire.
- Handle only outside or in explosion protected rooms.
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

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

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

- Follow water-related legal regulations.
- Follow regulations for storage of flammable fluids.
- Store in a cool location.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

- Store receptacle in a well ventilated area.
- Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Store only outside or in explosion proof rooms.
- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

- **Storage class:**

- 3 - Flammable liquids (as defined by the Chemical Industry Association (VCI, Verband der chemischen Industrie e.V.))
- No information available.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

141-78-6 ethyl acetate

WEL (Great Britain)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
AGW (Germany)	Long-term value: 730 mg/m ³ , 200 ppm 2(I);DFG, EU, Y
IOELV (EU)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm

- **DNELs:** No data available.
- **PNECs:** No data available.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**

- Do not carry product impregnated cleaning cloths in trouser pockets.
- Do not eat, drink, smoke or sniff while working.
- Use skin protection cream for skin protection.
- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

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- **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

If occupational exposure limits (OEL) and other exposure limits are observed long-term, no particular precautions are normally required.

- **Recommended filter device for short term use:**

Gas filter device as defined by EN 14387 Type A (organic gas / vapours, boiling point > 65 °C – colour code brown).

- **Hand protection**

Solvent resistant gloves.

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.6 mm

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.

- **Penetration time of glove material:**

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374).

Protective gloves have to be replaced at the first sign of deterioration.

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

- **Eye/face protection**



Tightly sealed goggles

- **Body protection:**

Solvent resistant protective clothing.

Anti-static protective clothing.

Body protection should be chosen depending on activity and possible exposure.

SECTION 9: Physical and chemical properties

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

- **General Information**

· Colour:	Colourless
· Odour:	Fruit-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	-83.57 °C
· Boiling point or initial boiling point and boiling range	77-78 °C (141-78-6 ethyl acetate)
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	2.1 Vol %
· Upper:	11.5 Vol %
· Flash point:	-1 °C
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	No data available.
· pH	No data available.
	Not determined.

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· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	0.44 mPas
· Solubility	
· water at 20 °C:	79 g/l
· organic solvents:	Miscible with many organic solvents.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	97 hPa
· Density and/or relative density	
· Density at 20 °C:	0.9 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	460 °C
· Explosive properties:	Not determined.
· Solvent content:	
· Organic solvents:	100.0 %
· VOC (EC):	100.00 %
· Solids content:	0.0 %
· Change in condition:	
· Softening point/range	
· Oxidising properties:	Not oxidizing.
· Evaporation rate	Not determined.

· 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 data available.
- **10.2 Chemical stability** Avoid impact, friction, heat, sparks, electrostatic charge.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **10.3 Possibility of hazardous reactions**
Develops readily flammable gases / fumes.
Danger of receptacles bursting because of high vapour pressure when heated.
Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials**
Oxidizing agents, strong.
Strong acid.
Alkalis (alkalis).
Metal.
- **10.6 Hazardous decomposition products** Carbon monoxide and carbon dioxide.

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 relevant for classification:

141-78-6 ethyl acetate

Oral	NOAEL	900 mg/kg (Rat)
	LD50	5,620 mg/kg (Rabbit)
Dermal	LD50	>20,000 mg/kg (Rabbit)
Inhalative	NOAEL	1.28 mg/l (Rat)

- **Skin corrosion/irritation** Frequently or prolonged contact with skin may cause dermal irritation.
- **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.
- **11.2 Information on other hazards**

· Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

141-78-6 ethyl acetate

LC50/96 h	230 mg/l (Fish)
EC50/48 h	164 mg/l (Daphnia (Daphnia magna))

- **12.2 Persistence and degradability** Easily biodegradable.
- **Other information:**
DOC reduction: > 70 %
Biodegradability 100 % in 28 days (OECD 301 D).
- **12.3 Bioaccumulative potential**
Distribution coefficient (n-octanol / water) (log P O/W): 0,66
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **COD-value:** 1816 mgO₂/g
- **BOD5-value:** 293 mgO₂/g
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**
The waste disposal code as prescribed in the European Waste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, IMDG, IATA | UN1173 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1173 ETHYL ACETATE
ETHYL ACETATE |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class · Label | 3 Flammable liquids.
3 |
| <ul style="list-style-type: none"> · 14.4 Packing group · IMDG, IATA | II |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No. |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · EMS Number: · Stowage Category | Warning: Flammable liquids.
F-E,S-D
B |
| <ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |

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· Transport/Additional information:	Sending by post is either impossible or permitted only in limited circumstances. Follow special postal regulations.
· ADR	
· Excepted quantities (EQ):	E2
· Limited quantities (LQ):	1L
· Excepted quantities (EQ):	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category:	2
· Tunnel restriction code:	D/E
· IMDG	
· Limited quantities (LQ):	1L
· Excepted quantities (EQ):	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1173 ETHYL ACETATE, 3

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Directive 2012/18/EU**
- **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
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

- **Department issuing SDS:** Department of product security.
- **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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
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
vPvB: very Persistent and very Bioaccumulative

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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

· **Sources** All details based on information provided by upstream suppliers.

· *** Data compared to the previous version altered.**

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