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

revised on: 10.01.2023

Version number 9

Creation Date: 19.01.2011

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
· 1.1 Product identifier		
· Trade name: Ethyl acetate		
· Article number: 2219, 2237, 2242, 2257, 2278, 2279		
· CAS Number:		
141-78-6		
· EC number:		
205-500-4		
<sup>-</sup> Index number: 607-022-00-5		
• <b>Registration number</b> 01-2119475103-46-XXXX		
• 1.2 Relevant identified uses of the substance or mixture and uses advised against		
· Life cycle stages		
F Formulation or re-packing		
IS Use at industrial Sites		
· Sector of Use		
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites		
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)		
SU9 Manufacture of fine chemicals		
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)		
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)		
SU24 Scientific research and development · Product category		
PC9a Coatings and paints, thinners, paint removers		
PC19 Intermediate		
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents		
PC21 Laboratory chemicals		
PC29 Pharmaceuticals		
PC39 Cosmetics, personal care products		
PC40 Extraction agents		
Process category		
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with		
equivalent containment conditions.		
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions		
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional		
controlled exposure or processes with equivalent containment condition		
PROC4 Chemical production where opportunity for exposure arises		
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities		
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities		
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)		
PROC15 Use as laboratory reagent		
PROC5 Mixing or blending in batch processes		
PROC7 Industrial spraying PROC10 Roller application or brushing		
PROC10 Roller application of brushing PROC13 Treatment of articles by dipping and pouring		
PROC19 Manual activities involving hand contact		
PROC11 Non industrial spraying		
Environmental release category		
ERC1 Manufacture of the substance		
ERC2 Formulation into mixture		
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)		
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)		
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EF • <b>Aj</b> La	RC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor RC6a Use of intermediate <b>oplication of the substance / the mixture</b> aboratory chemicals eagent for analysis	(Contd. of page 1) )
· <b>M</b> Th Do	<b>3 Details of the supplier of the safety data sheet anufacturer/Supplier:</b> n. Geyer GmbH & Co. KG prnierstr. 4 – 6 -71272 Renningen	
W	el.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 ww.thgeyer.de cherheitsdatenblaetter@thgeyer.de	
·Fu	urther information obtainable from: Product management department	
Na Ci Du Bi Te Ma	<b>4 Emergency telephone number:</b> ational Poisons Information Service ty Hospital udley Road rmingham B18 7QH el.:Emergency: (00 44) 87 06 00 62 66 embers of the public seeking specific information on poisons should contact: England and Wales: NHS 111 - dial 111 Scotland: NHS 24 - dial 111	
S	ECTION 2: Hazards identification	
· 2.	ECTION 2: Hazards identification 1 Classification of the substance or mixture lassification according to Regulation (EC) No 1272/2008 GHS02 flame	
· 2. · CI	1 Classification of the substance or mixture lassification according to Regulation (EC) No 1272/2008	
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- 2. - Cl K Fla Ey	1 Classification of the substance or mixture lassification according to Regulation (EC) No 1272/2008 GHS02 flame am. Liq. 2 H225 Highly flammable liquid and vapour.	
- 2. - Cl Fl: Ey ST - 2.: - La Th	1 Classification of the substance or mixture assification according to Regulation (EC) No 1272/2008 GHS02 flame am. Liq. 2 H225 Highly flammable liquid and vapour. GHS07 ye Irrit. 2 H319 Causes serious eye irritation.	
- 2. - Cl Fl: Ey ST - 2.: - La Th	<ul> <li>1 Classification of the substance or mixture lassification according to Regulation (EC) No 1272/2008</li> <li>GHS02 flame</li> <li>am. Liq. 2 H225 Highly flammable liquid and vapour.</li> <li>GHS07</li> <li>ye Irrit. 2 H319 Causes serious eye irritation.</li> <li>TOT SE 3 H336 May cause drowsiness or dizziness.</li> <li>2 Label elements</li> <li>abelling according to Regulation (EC) No 1272/2008</li> <li>be substance is classified and labelled according to the GB CLP regulation.</li> </ul>	
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	(Contd. of page 2)
• Precaution	ary statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional	information:
	epeated exposure may cause skin dryness or cracking.
· 2.3 Other h	azards
· Results of	PBT and vPvB assessment
· PBT: Not a	pplicable.
· vPvB: Not a	
SECTION	I 3: Composition/information on ingredients
SECTION	
· 3.1 Substa	nces

· 3.1 Substances

- CAS No. Description CAS: 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:	
First aider needs to protect himself.	
Immediately remove any clothing soiled by the product.	
After inhalation:	
Supply fresh air.	
In case of irregular breathing or respiratory arrest, seek medical attention immedia	Itely and administer first aid.
After skin contact:	
Flush contaminated skijn with soap and plenty of water.	
After prolonged contact or any signs of skin changes (redness or other signs of inf attention.	lammation) seek medical
After eye contact:	
Protect unharmed eye.	
Rinse out opened eye for several minutes under running water.	
Seek medical treatment.	
After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; call for medical help immediately.	
Information for doctor: Please observe safety data sheet/label.	
4.2 Most important symptoms and effects, both acute and delayed	
Breathing difficulty	
Headache	
Dazed feeling	
Vertigo	
Gastric or intestinal disorders	
Unconsciousness	
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·Hazards	(Contd. of page 3)
Danger of impaired breathing.	
Danger of pulmonary oedema.	
4.3 Indication of any immediate medical attention and special treatment needed	
Give Glucocorticoid-Aerosol in case of lung irritation.	
If swallowed or in case of vomiting, danger of entering the lungs.	
If swallowed, gastric irrigation with added, activated carbon.	
Symptomatic treatment.	
cymptomatic a calmona	
SECTION 5: Firefighting measures	
· 5.1 Extinguishing media	
<ul> <li>Suitable extinguishing agents:</li> </ul>	
Water spray, powder, carbon dioxide or foam. 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	
In case of fire, the following can be released:	
Carbon dioxides (CO, $CO_{\square}$ )	
Combustible.	
Vapours are heavier than air and may spread along floors.	
Formation of explosive/flammable vapour/air mixtures possible if insufficiently loaded and/	or in use.
Formation of toxic gases is possible during heating or in case of fire.	
· 5.3 Advice for firefighters	
· Protective equipment:	
Wear fully protective suit.	
Wear self-contained respiratory protective device.	
Do not inhale explosion gases or combustion gases.	
Additional information	
Cool endangered receptacles with water spray.	
Dispose of fire debris and contaminated fire fighting water in accordance with official regula	
Prevent fire extinguishing water from contaminating surface water or the ground water system	tem.
SECTION 6: Accidental release measures	
SECTION 0. Accidental release measures	
· 6.1 Personal precautions, protective equipment and emergency procedures	
Ensure adequate ventilation.	
Particular danger of slipping on leaked/spilled product.	
Keep away from ignition sources.	
Use respiratory protective device against the effects of fumes/dust/aerosol.	
Wear protective equipment. Keep unprotected persons away.	
Avoid contact with eyes and skin.	
6.2 Environmental precautions:	
Danger of explosion.	
Keep contaminated washing water and dispose of appropriately.	
Keep contaminated washing water and dispose of appropriately. Do not allow to enter sewers/surface or ground water.	
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Keep contaminated washing water and dispose of appropriately. Do not allow to enter sewers/surface or ground water.	
Keep contaminated washing water and dispose of appropriately. Do not allow to enter sewers/surface or ground water. 6.3 Methods and material for containment and cleaning up: Cover drains.	ıst).
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SECTION 7: Handling and storage
<ul> <li>7.1 Precautions for safe handling Keep receptacles tightly sealed.</li> <li>Keep away from heat and direct sunlight.</li> <li>Store in cool, dry place in tightly closed receptacles.</li> <li>Apply the general protection and hygiene measures for the handling with chemicals.</li> <li>Information about fire - and explosion protection: Fumes can combine with air to form an explosive mixture.</li> <li>Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep clear ofignition sources.</li> <li>Keep ignition sources away - Do not smoke.</li> <li>Protect against electrostatic charges.</li> </ul>
<ul> <li>7.2 Conditions for safe storage, including any incompatibilities</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles:</li> <li>Provide solvent resistant, sealed floor.</li> <li>Prevent any seepage into the ground.</li> <li>Store in a cool location.</li> <li>Store only in the original receptacle.</li> <li>Information about storage in one common storage facility:</li> <li>Store away from oxidising agents.</li> <li>Store away from flammable substances.</li> <li>Further information about storage conditions:</li> <li>Keep container tightly sealed.</li> <li>Store in cool, dry conditions in well sealed receptacles.</li> <li>Storage class: 3</li> <li>7.3 Specific end use(s) No further relevant information available.</li> </ul>

#### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

CAS: 141-78-6 Ethyl acetate

WEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm Long-term value: 734 mg/m<sup>3</sup>, 200 ppm

• 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:

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.

· Respiratory protection: Not necessary if room is well-ventilated.

· Hand protection



Protective 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.

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(Contd. of page 5) 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.

Butyl rubber, BR Material thickness > 0.4 mm

### · Penetration time of glove material

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

Level 3 for application up to 120 min

#### • Eye/face protection



Tightly sealed goggles

#### **Body protection:**



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

SECTION 9: Physical	and chemical	properties
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• 9.1 Information on basic physical and chemical p	roperties
· General Information	
Physical state	Fluid
Colour:	Colourless
· Odour:	Characteristic
Melting point/freezing point:	-83.57 °C
Boiling point or initial boiling point and boiling	
range	76–77.5 °C
· Flammability	Highly flammable.
• Lower and upper explosion limit	
· Lower:	2.1 Vol %
· Upper:	11.5 Vol %
<sup>·</sup> Flash point:	-1 °C
<ul> <li>Ignition temperature:</li> </ul>	460 °C
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	0.44 mPas
· Solubility	
water at 20 °C:	79 g/l
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	-0.13668
· Vapour pressure at 20 °C:	97 hPa
Density and/or relative density	
· Density at 20 °C:	0.89–0.9 g/cm <sup>3</sup>
-	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
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Important information on protection of health	(Contd. of pag
environment, and on safety.	T dha
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Molecular weight	88 g/mol
Change in condition	5
Evaporation rate	Not determined.
Information with regard to physical hazard cl	lasses
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 flamma	able
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 Stable with proper storage and handling.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with alkaline metals.

Develops readily flammable gases/fumes.

Danger of explosion.

Forms explosive gas mixture with air.

• **10.4 Conditions to avoid** Heat, flames and sparks

10.5 Incompatible materials: Avoid contact with other chemicals.

• 10.6 Hazardous decomposition products: On fire: see chapter 5

#### **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:

Oral LD50 5,620 mg/kg (rabbit)

Inhalative LC50 1,600 mg/l (rat)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

· 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.

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- 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.
- Subacute to chronic toxicity: -
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- **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:

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

Observe local (country-specific) regulations and laws

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in compliance with the respective national regulations.

	waste catalogue
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04*	other organic solvents, washing liquids and mother liquors
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

#### **SECTION 14: Transport information**

#### · 14.1 UN number or ID number · ADR, IMDG, IATA

UN1173

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<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG, IATA</li> </ul>	1173 ETHYL ACETATE ETHYL ACETATE
· 14.3 Transport hazard class(es)	
ADR	
· Class	3 (F1) Flammable liquids.
·Label	3
· IMDG, IATA	
Class	3 Flammable liquids.
·Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D B
<ul> <li>14.7 Maritime transport in bulk according to IM instruments</li> </ul>	O Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D/E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

### **SECTION 15: Regulatory information**

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### · Inventory of Hazardous Chemicals

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<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances - ANNEX I Substance is not listed.</li> <li>Seveso category P5c FLAMMABLE LIQUIDS</li> <li>Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t</li> <li>Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t</li> <li>REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40</li> <li>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical a electronic equipment – Annex II</li> <li>Substance is not listed.</li> <li>REGULATION (EU) 2019/1148</li> <li>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</li> <li>Substance is not listed.</li> <li>Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.</li> <li>Regulation (EC) No 273/2004 on drug precursors Substance is not listed.</li> <li>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Communit third countries in drug precursors</li> </ul>	9
· National regulations:	
<ul> <li>Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.</li> <li>15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.</li> </ul>	
SECTION 16: Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for an specific product features and shall not establish a legally valid contractual relationship. Application, use and handling of our products take place out of our control and are solely your responsibili	-
Department issuing SDS: Product management	-
<ul> <li>Contact: Product management</li> <li>Abbreviations and acronyms:         <ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>Flam. Liq. 2: Flammable liquids – Category 2</li> <li>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</li> <li>STOT SE 3: Specific target organ toxicity (single exposure) – Category 3</li> <li>* Data compared to the previous version altered.</li> </ul> </li> </ul>	F
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