

**ETHYLACETAT**

Version: 10.01

Revision Date 25.06.2018

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Trade name	Ethylacetat
REACH No.	01-2119475103-46-0001
Substance name (REACH / CLP)	Ethyl acetate

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

Use	Industrial use Solvent raw material for pharmaceutical products raw material for adhesives and binders
Uses advised against	

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

Company	Sasol Chemie GmbH & Co. KG Anckelmannsplatz 1 20537 Hamburg Germany
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	solvents.germany.msds@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+44 (0)1235 239 670 (Europe, Israel, Africa, Americas) +44 (0)1235 239 671 (Middle East, Arabic African countries) +65 3158 1074 (Asia Pacific) +86 10 5100 3039 (China) +27 (0)17 610 4444 (South Africa) +61 (2)8014 4558 (Australia)
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids Category 2	Highly flammable liquid and vapour.
Eye irritation Category 2	Causes serious eye irritation.
Specific target organ toxicity - single exposure Category 3 (Inhalation Central nervous system)	May cause drowsiness or dizziness.

**2.2 Label elements**

# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

## Labelling (REGULATION (EC) No 1272/2008)

### Hazard pictograms



### Signal word

Danger

### 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/sparks/open flames/hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

### Supplemental Hazard Statements

EUH066 Repeated exposure may cause skin dryness or cracking.

### Hazardous components which must be listed on the label:

- Ethyl acetate

## 2.3 Other hazards

Vapours may form explosive mixture with air.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

### COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

#### ethyl acetate

content: >= 90 - <= 100 %

component type: Active ingredient

EC-No.: 205-500-4

Index-No.: 607-022-00-5

CAS-No.: 141-78-6

REACH No.: 01-2119475103-46-0001

Substance name (REACH / CLP): Ethyl acetate

Classification (Regulation (EC) No 1272/2008):

Flam. Liq. 2 H225  
 Eye Irrit. 2 H319  
 STOT SE 3 (Inhalation Central nervous system) H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

**ETHYLACETAT**

Version: 10.01

Revision Date 25.06.2018

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**SECTION 4: FIRST AID MEASURES**

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**4.1 Description of first aid measures**

<b>If inhaled</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off with plenty of water. Take off all contaminated clothing immediately.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	Immediately give plenty of water (if possible charcoal slurry). Do NOT induce vomiting.

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

<b>Most important symptoms and effects, both acute and delayed</b>	Risks: No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: For specialist advice physicians should contact the Poisons Information Service.
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**SECTION 5: FIREFIGHTING MEASURES**

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**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Dry powder, Alcohol-resistant foam, Carbon dioxide (CO <sub>2</sub> ) in enclosed spaces
<b>Unsuitable extinguishing media</b>	High volume water jet

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

<b>Specific hazards during firefighting</b>	Dangerous gases or fumes may occur in case of fire. When fighting fires in enclosed spaces: caution, danger of suffocation!
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	In the event of fire, wear self-contained breathing apparatus.
<b>Further information</b>	In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Do not breathe vapours or spray mist. Keep away from sources of ignition - No smoking. Ensure adequate ventilation.
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**6.2 Environmental precautions**

<b>Environmental precautions</b>	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Explosive properties
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**ETHYLACETAT**

Version: 10.01

Revision Date 25.06.2018

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**6.3 Methods and materials for containment and cleaning up****Methods for cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**6.4 Reference to other sections**

For personal protection see section 8.

**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation.  
Keep away from sources of ignition - No smoking.  
Vapours are heavier than air and may spread along floors.

**Advice on protection against fire and explosion**

Take precautionary measures against static discharges.  
Vapours may form explosive mixtures with air.

**Temperature class**

T1

**Fire-fighting class**

B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage areas and containers**

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

**Storage class (TRGS 510)**

3: Flammable liquids

**7.3 Specific end use(s)****Specific use(s)**

Consult the technical guidelines for the use of this substance/mixture.

# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

##### National occupational exposure limits

Control parameters / Substance name	Typ	Control parameters	Update	Basis
ETHYL ACETATE	TWA	400 ppm	03 2018	ACGIH
ETHYL ACETATE	REL REL	1.400 mg/m3 400 ppm	2016 2016	NIOSH Pocket Guide to Chemical Hazards
ETHYL ACETATE	PEL PEL	1.400 mg/m3 400 ppm	01 2017 01 2017	OSHA Table Z-1
ETHYL ACETATE	TWA TWA	1.400 mg/m3 400 ppm	1989 1989	OSHA Table Z-1-A
ETHYL ACETATE	TWA PEL TWA PEL	1.400 mg/m3 400 ppm	02 2012 02 2012	US - California OELs
ETHYL ACETATE	ST ESL	1400	02 2013	TX ESL
ETHYL ACETATE	ST ESL	390	02 2013	TX ESL
ETHYL ACETATE	AN ESL	1440	02 2013	TX ESL
ETHYL ACETATE	AN ESL	400	02 2013	TX ESL
ETHYL ACETATE	TWA TWA	1.400 mg/m3 400 ppm	06 2008 06 2008	TN OEL

##### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Control parameters / Substance name	Typ	Control parameters	Update	Basis
ETHYL ACETATE	TWA TWA	734 mg/m3 200 ppm	2014 2014	EU SCOELS
ETHYL ACETATE	STEL STEL	1.468 mg/m3 400 ppm	2014 2014	EU SCOELS
ETHYL ACETATE	TWA TWA	734 mg/m3 200 ppm	02 2017 02 2017	EU Exposure Limit Values
	Indicative			
ETHYL ACETATE	STEL STEL	1.468 mg/m3 400 ppm	02 2017 02 2017	EU Exposure Limit Values
	Indicative			

## ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

## DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Ethyl acetate			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects	1468 mg/m3	
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects	1468 mg/m3	
	dermal, long-term exposure - systemic effects	63 mg/kg Body weight/day	
	Inhalation, long-term exposure - systemic effects	734 mg/m3	
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects	734 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects	734 mg/m3	
	Oral, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects	734 mg/m3	
	dermal, long-term exposure - systemic effects	37 mg/kg Body weight/day	
	Inhalation, long-term exposure - systemic effects	367 mg/m3	
	Oral, long-term exposure - systemic effects	4,5 mg/kg Body weight/day	
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects	367 mg/m3	

# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

## PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Ethyl acetate		
Environmental Compartment	Value	Note
Fresh water	0,24 mg/l	
Marine water	0,024 mg/l	
intermittent release	1,65 mg/l	
treatment plant	650 mg/l	
Fresh water sediment	1,15 mg/kg	based on dry weight
Marine sediment	0,115 mg/kg	based on dry weight
Soil	0,148 mg/kg	based on dry weight
food	200 mg/kg	

## 8.2 Exposure controls

### ENGINEERING MEASURES

Provide sufficient air exchange and/or exhaust in work rooms.

### PERSONAL PROTECTIVE EQUIPMENT

#### Respiratory protection

In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

#### Hand protection

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

#### gloves suitable for splash protection:

Material: butyl-rubber  
Break through time: >= 60 min  
Layer thickness: 0,5 mm

#### unsuitable gloves

Material: Natural rubber/natural latex, Polychloroprene, Fluorinated rubber, Nitrile rubber/nitrile latex, Polyvinylchloride

#### Eye protection

Tightly fitting safety goggles

#### Skin and body protection

Wear suitable protective equipment.

#### Hygiene measures

Take off all contaminated clothing immediately. Preventive skin protection

#### Protective measures

General industrial hygiene practice.

### ENVIRONMENTAL EXPOSURE CONTROLS

#### General advice

Avoid subsoil penetration.  
Do not flush into surface water or sanitary sewer system.

**ETHYLACETAT**

Version: 10.01

Revision Date 25.06.2018

Explosive properties

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid; 20 °C; 1.013 hPa
<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	ester-like
<b>Odour Threshold</b>	No valid method available
<b>pH</b>	Not applicable
<b>Melting point/range</b>	ca. -83 °C
<b>Boiling point/boiling range</b>	75 - 77,5 °C
<b>Flash point</b>	-4 °C
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	2,1 %(V)
<b>Upper explosion limit</b>	11,5 %(V)
<b>Vapour pressure</b>	103 hPa; 21 °C
<b>Relative vapour density</b>	1,20
<b>Density</b>	0,90 g/cm <sup>3</sup> ; 20 °C
<b>Solubility/qualitative</b>	miscible with most organic solvents
<b>Water solubility</b>	ca. 86 g/l; 20 °C 80 g/l; 25 °C
<b>Partition coefficient: n-octanol/water</b>	log Pow: 0,68; 25 °C
<b>Auto-ignition temperature</b>	426 °C; 1.013 hPa
<b>Viscosity, dynamic</b>	0,45 mPas; 20 °C
<b>Explosive properties</b>	not expected based on structure and functional groups
<b>Oxidizing properties</b>	not expected based on structure and functional groups
<b>Molar mass</b>	88,11 g/mol

**9.2 Other data**

<b>Refractive index</b>	1,370 - 1,373 at 20 °C
<b>Additional advice</b>	no data

**ETHYLACETAT**

Version: 10.01

Revision Date 25.06.2018

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**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

**Note** No hazards to be specially mentioned.

**10.2 Chemical stability**

**Note** No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** None known.

**10.4 Conditions to avoid**

**Conditions to avoid** Heat, flames and sparks.

**10.5 Incompatible materials to avoid**

**Materials to avoid** Alkali metals; Strong oxidizing agents

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** None known.

**Thermal decomposition** None known.

**Further information** Vapours may form explosive mixtures with air.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****Acute toxicity**

**Acute oral toxicity** ethyl acetate:  
LD50 Rabbit: > 2.000 mg/kg; OECD Test Guideline 401  
(literature value)  
Based on available data, the classification criteria are not met.

**Acute inhalation toxicity** ethyl acetate:  
LCLo Rat: > 6000 ppm; 6 h  
Test atmosphere: vapour  
(literature value)  
Based on available data, the classification criteria are not met.

**Acute dermal toxicity** ethyl acetate:  
LD50 Rabbit: > 5.000 mg/kg;  
(literature value)  
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

**Skin irritation** ethyl acetate:  
Rabbit: not irritating; OECD Test Guideline 404  
(literature value)  
Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**

**ETHYLACETAT**

Version: 10.01

Revision Date 25.06.2018

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<b>Eye irritation</b>	ethyl acetate: Rabbit: not irritating; OECD Test Guideline 405 (literature value) Based on available data, the classification criteria are not met.  ethyl acetate: Causes serious eye irritation. Derived from the classification according to Annex VI of Regulation (EC) 1272/2008.
<b>Respiratory or skin sensitisation</b>	
<b>Sensitisation</b>	ethyl acetate: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vitro</b>	ethyl acetate: In vitro tests did not show mutagenic effects (literature value)
<b>Genotoxicity in vivo</b>	ethyl acetate: In vivo tests did not show mutagenic effects (literature value)
<b>Carcinogenicity</b>	
<b>Carcinogenicity</b>	ethyl acetate: Based on available data, the classification criteria are not met. (literature value)
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	ethyl acetate: Based on available data, the classification criteria are not met. (literature value)
<b>Teratogenicity</b>	ethyl acetate: Based on available data, the classification criteria are not met. (literature value)
<b>STOT - single exposure</b>	
<b>Remarks</b>	ethyl acetate: May cause drowsiness or dizziness.
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	ethyl acetate: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	ethyl acetate: Rat; Subchronic toxicity NOAEL: 900 mg/kg (based on body weight and day) LOAEL: 3.600 mg/kg (based on body weight and day) Symptoms: reduced body weight gain, reduced food consumption (literature value)  ethyl acetate: Rat; Subchronic toxicity; NOAEC: 1,28 mg/l Symptoms: reduced body weight gain, reduced food consumption (literature value)
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	ethyl acetate:

# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Toxicity to fish</b>	ethyl acetate: LC50 (96 h) Pimephales promelas (fathead minnow): > 100 mg/l ; flow-through test; US EPA E03-05 (literature value)
<b>Toxicity to fish - Chronic toxicity</b>	ethyl acetate: Chronic Toxicity Value (32 d) Fish: 6,9 mg/l; QSAR (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	ethyl acetate: EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	ethyl acetate: EC10 (21 d) Daphnia magna (Water flea): 2,4 mg/l; reproduction rate; (literature value)
<b>Toxicity to aquatic plants</b>	ethyl acetate: EC10 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; static test; OECD Test Guideline 201; (literature value)
	ethyl acetate: EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; static test; OECD Test Guideline 201; (literature value)
<b>Toxicity to bacteria</b>	ethyl acetate: EC10 (16 h) Pseudomonas putida: 650 mg/l; DIN 38 412 Part 8 (literature value)
<b>Toxicity to soil dwelling organisms</b>	ethyl acetate: The study is not necessary. Not expected to adsorb on soil. (literature value)
<b>Toxicity to terrestrial flora</b>	ethyl acetate: The study is not necessary. Not expected to adsorb on soil.
<b>Toxicity for other terrestrial non-mammalian fauna</b>	ethyl acetate: The study is not necessary.

### 12.2 Persistence and degradability

<b>Biodegradability</b>	ethyl acetate: Readily biodegradable.; > 60 %; 28 d; aerobic (literature value)
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### 12.3 Bioaccumulative potential

<b>Bioaccumulation</b>	ethyl acetate: Leuciscus idus (Golden orfe); 3 d; Bioconcentration factor (BCF): 30 No bioaccumulation is to be expected (log Pow <= 4).
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### 12.4 Mobility in soil

<b>Mobility</b>	ethyl acetate: Highly mobile in soils low potential for absorption
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# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

(literature value)

## 12.5 Results of PBT and vPvB assessment

**Results of PBT assessment** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Results of PBT assessment** ethyl acetate:  
Based on available data, the classification criteria are not met.

## 12.6 Other adverse effects

**General advice** ethyl acetate:  
None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product** Following pre-treatment and observing the regulations for hazardous wastes, it must be taken to a permitted hazardous wastes landfill or hazardous wastes incinerator.

**Contaminated packaging** Contaminated packaging should be emptied optimally and after being suitably cleaned returned for re-use., Packaging that cannot be cleaned must be disposed of in the same way as the material itself.

**waste code of the European Union: EWC** A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADR	1173
RID	1173
ADN	1173
IMDG	1173
ICAO/IATA	1173

### 14.2 Proper shipping name

ADR	ETHYL ACETATE
RID	ETHYL ACETATE
ADN	ETHYL ACETATE
IMDG	ETHYL ACETATE
ICAO/IATA	ETHYL ACETATE

### 14.3 Transport hazard class

ADR	3
RID	3
ADN	3
IMDG	3

# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

ICAO/IATA	3		
<b>14.4 Packing group</b>			
ADR	II		
RID	II		
ADN	II		
IMDG	II		
ICAO/IATA	II		
<b>14.5 Environmental hazards</b>			
ADR	Environmentally hazardous		no
RID	Environmentally hazardous		no
ADN	Environmentally hazardous		no
IMDG	Marine pollutant		no
ICAO/IATA	Environmentally hazardous		no
<b>14.6 Special precautions for user</b>			
ADR	Hazard Identification Number		33
	Labels		3
	Tunnel restriction code		(D/E)
IMDG	Labels	3	
	EmS Number 1	F-E	
	EmS Number 2	S-D	
ICAO/IATA	Labels		3
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>			
Remarks	No information available.		

## SECTION 15: REGULATORY INFORMATION

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

**Occupational restrictions** Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

#### NATIONAL/OTHER REGULATIONS

**Legislation on the control of major-accident hazards involving dangerous substances** Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
list entry in the directive:: FLAMMABLE LIQUIDS; P5c  
Qualifying quantity 1: 5.000 t; Qualifying quantity 2: 50.000 t;

# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

## NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

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

### Safety datasheet sections which have been updated:

- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 12. Ecological information

### Further information:

This safety datasheet only contains information relating to safety and does not replace any product information or product specification. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# ETHYLACETAT

Version: 10.01

Revision Date 25.06.2018

## Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse

## Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000006994\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000006994_EN_01.pdf)