

# Ethyl acetate Safety Data Sheet

according to Regulation (EU) 2020/878Issue date: 3/21/2020 Revision date: 18/12/2023 Version: 5.0

1.1. Product identifier			
Product form	: Substance		
Substance name	: Ethyl acetate		
Chemical name	: Ethyl acetate		
REACH Registration No. :	01-2119475103-46-XXXX		
EC Index-No.	: 607-022-00-5		
EC-No.	: 205-500-4		
CAS-No.	: 141-78-6		
Product code	: E01.D1.00		
Formula	: C4H8O2		
	e substance or mixture and uses advised against		
Use of the substance/mixture	: Industrial use		
Restrictions on use	: No data available		
.3. Details of the supplier of the supplier of the supplier of the supplier of the supplication of the sup	afety data sheet		
Adokim Kimya Sanayi ve Ticaret A.Ş. AOSB 3. Kısım Mah. 35. Cadde No:3-A Dö	ösemealtı. Antalva - TURKEY		
T +90 242 236 10 00 <u>nfo@adokim.com.tr</u>			
1.4. Emergency telephone number			
Emergency number	: +90 242 236 10 00		
SECTION 2: Hazards identificati			
2.1. Classification of the substance	e or mixture		
Classification according to Regulation (	(EC) No. 1272/2008 [CLP]		
Flammable liquids, Category 2	H225		
Serious eye damage/eye irritation, Catego			
Specific target organ toxicity — Single exp Full text of H statements : see section 16	osure, Category 3, Narcosis H336		
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SECTION 3: C	omposition/i	nformation of	on ingredients		
3.1. Substan Formula	<mark>ces</mark> : C₄H <sub>8</sub> O₂				
Molecular weight	: 88,11 g/mol				
	: 141-78-6 : 205-500-4				
	: 607-022-00-5				
Name		Product ident	ifier	Classification	Concentration
Ethyl acetate		(CAS-No.) 141-78		Flam. Liq. 2; Eye Irrit. 2;	> 99.8 %
		(EC-No.) 205-500-4         STOT SE 3; H225, H319, H336           (EC Index-No.) 607-022-00-5         Concentration limits:           20 %: STOT SE 3, H336			
3.2. Mixtures	;				
Not applicable					
SECTION 4: Fi	rst aid meas	ures			
	ion of first aid n				
First-aid measures	0		•	a doctor if you feel unwell.	
First-aid measures	after inhalation	:	Remove person to free symptoms: Call a pois	sh air and keep comfortable for breathing on center or a doctor.	3. If experiencing respiratory
First-aid measures	after skin contac	t :		shower. Take off immediately all contam	inated clothing.
First-aid measures	after eye contact		Rinse cautiously with	water for several minutes. Remove conta	act lenses, if present and easy
First aid massion	ofter ingestier		-	eye irritation persists: Get medical advi	
First-aid measures	ų.			nduce vomiting. Call a poison center or a	a doctor if you feel unwell.
4.2. Most imposite Symptoms/effects	portant symptor		both acute and delaye May cause drowsiness		
Symptoms/effects	after skin contact			ay cause skin dryness or cracking.	
Symptoms/effects			Eye irritation.	.,	
4.3. Indicatio	on of any immed	iate medical att	tention and special tre	eatment needed	
Treat symptomatica					
SECTION 5: Fi	refighting m	easures			
	shing media				
Suitable extinguish	-	:	Water spray. Dry powe	ler. Foam. Carbon dioxide.	
Unsuitable extingui	shing media	:	High volume water jet.		
5.2. Special I	hazards arising	from the substa	ance or mixture		
Fire hazard			Highly flammable liqui		
Hazardous decomp fire;	position products	in case of :	Toxic fumes may be re	eleased. Carbon oxides.	
	er firefightere				
5.3. Advice for Protection during fi	or firefighters		Do not attempt to take	action without suitable protective equipr	ment Self-contained breathing
FIOLECTION during in	rengnung		apparatus. Complete p		nent. Self-contained breathing
SECTION 6: A	ccidental rele	ease measur	es		
6.1. Persona	l precautions, p	rotective equip	ment and emergency	procedures	
	emergency per				
Protective equipment			<ul> <li>Wear recommended personal protective equipment.</li> <li>Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapours</li> </ul>		
Emergency proced	ures	:	Avoid contact with skir		oking. Avoid breatning vapour
6.1.2. For eme	rgency respond	ers		-	
Protective equipme	ent	:		action without suitable protective equip posure controls/personal protection".	ment. For further information
Emergency proced	ures	:	Eliminate all ignition so	ources if safe to do so. Evacuate unnece	ssary personnel.
6.2. Environ	mental precaution e environment.	ons			
		or containment	and cleaning up		
Methods for cleanir				absorbent material. Notify authorities if	product enters sewers or publ
	0 1		waters.		
Other information		:	Dispose of materials o	r solid residues at an authorized site.	
	ce to other secti				
	measures listed	in Sections 7 and	d 8. For further informat		
3/21/2020			EN (English)	SDS Ref.: E01.D1.0	5 2



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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapours. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Heat and ignition sources	: Keep away from open flames, hot surfaces and sources of ignition.
7.3.         Specific end use(s)           No additional information available.	
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
Ethyl acetate (141-78-6)	
EU - Occupational Exposure Limits	
Local name	Ethyl Acetate
IOELV TWA (mg/m <sup>3</sup> )	734 mg/m <sup>3</sup>
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
IOELV STEL (ppm)	400 ppm
Notes	SCOEL Recommendations (2008)
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
United Kingdom - Occupational Exposure Lir	nits
Local name	Ethyl acetate
WEL TWA (mg/m <sup>3</sup> )	734 mg/m³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m <sup>3</sup> )	1468 mg/m <sup>3</sup>
WEL STEL (ppm)	400 ppm
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Ethyl acetate (141-78-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1468 mg/m <sup>3</sup>
Acute - local effects, inhalation	1468 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	734 mg/m <sup>3</sup>
Long-term - local effects, inhalation	734 mg/m <sup>3</sup>
DNEL/DMEL (General population) Acute - systemic effects, inhalation	734 mg/m <sup>3</sup>
Acute - local effects, inhalation	734 mg/m <sup>2</sup> 734 mg/m <sup>3</sup>
Long-term - systemic effects, oral	4.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	367 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day
Long-term - local effects, inhalation	367 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0.24 mg/l
PNEC aqua (marine water)	0.024 mg/l
PNEC aqua (intermittent, freshwater)	1.65 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.15 mg/kg dwt
PNEC sediment (marine water)	0.115 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.148 mg/kg dwt
PNEC (Oral)	



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Ethyl acetate (141-78-6)		
PNEC oral (secondary poisoning)	0.2 g/kg food	
PNEC (STP)		
PNEC sewage treatment plant	650 mg/l	

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

#### Hand protection:

Protective gloves

Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and	chemical properties
Physical state	: Clear, liquid
Colour	: Colourless
Odour	: Fruity
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / Freezing point	: -84 °C
Initial boiling point and boiling range	: 76,5-77,5 °C
Flash point	: -4 °C
Auto-ignition temperature	: 426 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 73 mm Hg (20 °C)
Relative vapour density at	: 3.04 (Air=1, 20 °C)
Density and Relative density	: 0.902 g/cm <sup>3</sup> (20 °C) No data available
Solubility	: Water: 8 g/100ml (25 °C)
Partition coefficient n-octanol/water (Log Pow)	: 0.73
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.45 mPa <sup>.</sup> s (20 °C)
Explosive properties	: No data available
Oxidising properties Upper/lower flammability or explosive limits	: No data available : 2 – 11.5 vol %



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9.2. Other information				
No additional information available				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
Highly flammable liquid and vapour.				
10.2. Chemical stability				
Stable under normal conditions.				
10.3. Possibility of hazardous reactions				
No dangerous reactions known under normal conc	litions of use.			
10.4. Conditions to avoid				
Avoid contact with hot surfaces. Heat. No flames, r	no sparks. Eliminate all sources of ignition.			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
Under normal conditions of storage and use, haza	rdous decomposition products should not be produced.			
<b>SECTION 11: Toxicological informatic</b>	on			
11.1. Information on hazard classes				
Acute toxicity	: Not classified			
Ethyl acetate (141-78-6)				
LD50 oral rabbit	5620 mg/kg bodyweight			
LD50 dermal rat	> 18000 mg/kg bodyweight			
LC50 inhalation rat	1.600 mg/l/4h			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Causes serious eye irritation.			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
STOT-single exposure	: May cause drowsiness or dizziness.			
STOT-repeated exposure	: Not classified			
Ethyl acetate (141-78-6)				
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight			
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight			
Aspiration hazard	: Not classified			
11.2. Information on other hazards				

11.2. Information on other hazards

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2020/878 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - male and female - Oral - 90 Days - NOAEL (No observed adverse effect level) - 900 mg/kg - LOAEL (Lowest observed adverse effect level) - 3.600 mg/kg

RTECS: AH5425000

Inhalation of high concentrations may cause:, Headache, Drowsiness, Dizziness, Vomiting, Narcosis, Anemia, Central nervous system depression

<b>SECTION 12: Ecological information</b>	1
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short- term (acute)	: Not classified
Hazardous to the aquatic environment, long- term (chronic)	: Not classified



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Ethyl acetate (141-78-6)	
LC50 fish	230 mg/l Pimephales promelas
EC50 daphnia	720 mg/I Daphnia magna
EC50 algae	3300 mg/l
LC50 bacteria	2900 mg/l
NOEC chronic daphnia	2.4 mg/l Daphnia magna 21d
12.2. Persistence and degradability	
Ethyl acetate (141-78-6)	
Persistence and degradability	Readily biodegradable
Biodegradation	100 % 28d
12.3. Bioaccumulative potential	
Ethyl acetate (141-78-6)	
Partition coefficient n-octanol/water (Log Pow)	0.73
Bioaccumulative potential	Low bioaccumulation potential.
12.4. Mobility in soil	
Ethyl acetate (141-78-6)	
Mobility in soil	Low mobility
12.5. Results of PBT and vPvB assessment	

No additional information available

#### 12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2020/878 at levels of 0.1% or higher.

#### 12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.		
Additional information	: Do not re-use empty containers. Flammable vapours may accumulate in the container.		

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

#### In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1173	1173	1173	1173	1173
14.2. UN proper shipp	ing name	I	I	•
ETHYL ACETATE	ETHYL ACETATE	Ethyl acetate	ETHYL ACETATE	ETHYL ACETATE
Transport document desc	ription		1	I
UN 1173 ETHYL ACETATE, 3, II, (D/E)	UN 1173 ETHYL ACETATE, 3, II (-4°C c.c.)	UN 1173 Ethyl acetate, 3, II	UN 1173 ETHYL ACETATE, 3, II	UN 1173 ETHYL ACETATE, 3, II
14.3. Transport hazard	d class(es)			•
3	3	3	3	3
14.4. Packing group	· · · ·			· ·
	П	11	11	П
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No



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#### 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instruction (ADR)	ns : T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S2
Hazard identification number (Kemler No.) Tunnel restriction code (ADR)	: 33 : D/E
Orange plates :	33
	55
	1173

EAC code

- Transport by sea	
Limited quantities (IMDG)	:1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B
Flash point (IMDG)	: -4°C c.c.
- Air transport	50
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3L
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

: •3YE

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- Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Transport in bulk sea according to IMO instruments

#### Not applicable

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

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

#### 15.1.1. EU-Regulations

#### No REACH Annex XVII restrictions

Ethyl acetate is not on the REACH Candidate List

Ethyl acetate is not on the REACH Annex XIV List

Ethyl acetate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

Ethyl acetate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 95)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Ontwikkeling	
Denmark	

#### Denmark

Classification remarks Danish National Regulations : Emergency management guidelines for the storage of flammable liquids must be followed : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information		
Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	



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DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

#### Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
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.

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Ek VI.

ECHA (European Chemicals Agency).

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