

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70300 Ethyl Acetate

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Revised edition: 07.02.2023

Version: 9.0

Printed: 14.02.2023

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Ethyl Acetate

Article No.: 70300

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Industrial application

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Flammable liquids, hazard category 2
Serious eye damage, hazard category 2
Specific Target Organ Toxicity (single exposure), hazard category 3

H225 Highly flammable liquid and vapour.

Cat.: 2

H319 Causes serious eye irritation.

Cat.: 2

H336 May cause drowsiness or dizziness.

Cat.: 3

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Hazard designation:

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GHS07

Signal word:

Danger

Hazard designation:

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.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P312	Call a poison center or physician if you feel unwell.
P370+P378	In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

Ethyl acetate

2. 3. Other Hazards

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: Ethyl ethanoate, Acetic ester

Information on Components / Hazardous Ingredients:

Ethyl acetate (H225-319-336); REACH Reg. No. 01-2119475103-46-xxxx	100 %	CAS-Nr: 141-78-6 EINECS-Nr: 205-500-4 EC-Nr: 607-022-00-5
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Additional information:

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Take person away from hazardous area.
Remove contaminated clothes immediately.

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After inhalation:

*Supply fresh air. If required give artificial respiration. Keep patient warm.
Give artificial respiration in case breathing is not regular or if it has stopped.
In case of unconsciousness place patient stable in side position for transportation.*

After skin contact:

*Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.
If symptoms persist, consult a physician.*

After eye contact:

*Rinse open eyes with plenty of water for at least 5 minutes.
Consult a physician immediately.
If possible bring to an eye clinic.*

After ingestion:

*Rinse mouth with water and give plenty of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.
Do not induce vomiting. Consult physician immediately.
In case of spontaneous vomiting, bring unconsciousness person in a stable side position.*

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

*Inhalation: can cause pain in the nose and throat, coughing and headache.
Skin contact: degreases skin causing dry and rough skin.
Prolonged contact may cause dermatitis.
Eye contact: burning*

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, water spray jet.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*The vapor is heavier than air, spreads along the ground and distant ignition is possible.
Fumes can form an explosive mixture with air.*

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*In case of fire: formation of carbon monoxide and dioxide.
Risk of bursting of closed containers due to strong heating.*

5.3. Advice for Firefighters

Protective equipment:

*Wear self-contained respiratory protective device.
Wear suitable protective clothing.*

Further information:

*Cool closed containers exposed to fire with water mist.
Collect contaminated extinguishing water and debris separately;
avoid contamination of sewage system.*

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Wear appropriate protective equipment. Keep spectators away.
Ensure adequate ventilation.
Keep away from sources of heat and ignition.
Avoid contact with skin and eyes. Do not ingest or inhale.*

6.2. Environmental Precautions

Environmental precautions:

*Contact local authorities if product pollutes soil or vegetation.
Do not discharge into drains, surface or ground water in
concentrated form.*

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

*Contain with non-flammable absorbent material (e.g. sand,
diatomaceous earth, vermiculite) and dispose accordingly.*

6.4. Reference to other Sections

*Protective clothing, see Section 8.
See Section 13 for information on disposal.*

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*Keep containers tightly closed.
Do not inhale vapors or mist.
A nearby eyewash facility should be available for emergencies.*

Hygienic measures:

*Avoid contact with eyes and skin.
Keep away from foodstuffs and drinks. Do not eat, drink or smoke
during work. Wash hands before breaks and at the end of work.*

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in tightly sealed containers in a cool and well ventilated
location.
Protect against heat and direct sunlight.*

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Do not store together with food stuff and animal feed.

Requirements for storage areas and containers:

Store in a room with a solvent-proof floor.

Information on fire and explosion protection:

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Vapors may form an explosive mixture with air. Vapor is heavier than air and spreads along the ground.

Use only explosion protected devices.

Storage class:

3; Flammable liquids (TRGS 510)

Further Information:

The product is slightly hazardous to water. Consider national regulations regarding handling and storage.

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Ethyl acetate (CAS 141-78-6); TLV: Average value: 200 ppm, 750 mg/m³; Short term value: 400 ppm, 1500 mg/m³; (2(1)Y; DFG)

Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.

Parameters to be controlled:

Ethyl acetate (CAS 141-78-6); IOELV (EC): Long-term value: 200 ppm, 734 mg/m³; Short-term value: 400 ppm, 1468 mg/m³; MAK (CH): Long-term value: 200 ppm, 730 mg/m³; Short-term value: 400 ppm, 1460 mg/m³; MAK (AT): Long-term value: 200 ppm, 734 mg/m³; Short-term value: 400 ppm, 1468 mg/m³

Derived No-Effect Level (DNEL):

1468 mg/m³ (worker, inhalation, acute exposure - local and systemic effects)

734 mg/m³ (worker, inhalation, chronic exposure - local and systemic effects)

63 mg/kg (worker, skin contact, chronic exposure - local effects)

Predicted No-Effect Concentration (PNEC):

Ethyl acetate:

Fresh water: 0.24 mg/l

Seawater: 0.024 mg/l

Fresh water sediment: 1.15 mg/kg

Seawater sediment: 0.115 mg/kg

Soil: 0.148 mg/kg

Sewage treatment system (STP): 650 mg/l

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Intermittent release: 1.65 mg/l

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Provide adequate ventilation.

Facilities storing or utilizing this material should be equipped with an eyewash facility.

Personal Protection

General protective measures:

Avoid contact with skin.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation, filter type A (organic gases and vapors).

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Polyethylene (PE), chloroprene rubber (CR), butyl rubber (0.4 mm)

Recommended: Protective index 4, corresponding > 120 min. of permeation time (EN 374).

Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing, solvent resistant

Environmental precautions:

Prevent contamination of open water ways and sewage system. Avoid contamination of ground water.

9. Physical and Chemical Properties

9. 1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: colorless

Odor: fruit-like

Odor threshold: 6-75 ppm 22-270 mg/m³

pH-Value: not applicable

Melting temperature: -83.6°C

Boiling temperature: 77.1°C (1013 hPa)

Flash point: -4°C (1013 hPa)

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Evaporation rate:	2.4 (Ether) (n-Butyl acetate =1)
Flammability (solid, gas):	An explosive vapor/air mixture can be formed.
Upper explosion limit:	11.5 Vol.-%
Lower explosion limit:	2 Vol.-%
Vapor pressure:	98.3 hPa (20°C)
Vapor density:	No information available.
Density:	0.9 g/cm ³ (20°C)
Solubility in water:	80 g/l (25°C)
Coefficient of variation (n-Octanol/Water):	0.68 log KOW
Auto-ignition temperature:	427°C
Decomposition temperature:	No data available.
Viscosity, dynamic:	
Explosive properties:	An explosive vapor/air mixture can be formed.
Oxidizing properties:	no information available
Bulk density:	not determined

9.2. Further Information

Solubility in solvents:	
Viscosity, kinematic:	
Burning class:	
Solvent content:	
Solid content:	
Particle size:	
Other information:	Surface tension: 0.024 N/m (20°C) Temperature class: T2 (maximum temperature: 300°C)

10. Stability and Reactivity

10.1. Reactivity	Stable if used according to specifications.
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10.2. Chemical Stability	No decomposition if used according to specifications.
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10.3. Possibility of Hazardous Reactions

Reacts with strong oxidants.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid contact with heat, sparks and open fire.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

Oxidizing agents.

10.6. Hazardous Decomposition Products

Acetic acid.

In case of fire: formation of carbon oxides.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

Is not classified as acutely toxic.

LD50, oral:

No information available.

LD50, dermal:

> 20000 mg/kg (rabbit)

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Causes serious eye irritation.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known (guinea pig; OECD 406).

Mutagenicity:

Not sufficient information available.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

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Specific target organ toxicity (STOT):

Single exposure: may cause drowsiness or dizziness.

Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.

Aspiration hazard

Not applicable

11. 2. Information on other Hazards

Skin contact: repeated exposure may cause skin dryness or cracking.

12. Ecological Information

12. 1. Aquatic Toxicity

Fish toxicity:

LC50: 230 mg/l (96h, Pimephales promelas)

Daphnia toxicity:

Chronic toxicity: EC50: 2306 mg/l (24h, Daphnia magna)

Bacteria toxicity:

No data available.

Algae toxicity:

No information available.

12. 2. Persistency and Degradability

62 % (5d); readily biodegradable (OECD 301D)

12. 3. Bioaccumulation

Bioconcentration factor (BCF): 30 (3d)

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12. 6. Endocrine Disrupting Properties

Not listed.

12. 7. Other Adverse Effects

Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Solvent recovery / regeneration.

Dispose of according to official national and local regulations.

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European Waste Code (EWC):

Uncleaned packaging:

*This waste is hazardous, only approved packaging are permitted.
Completely emptied packaging may be recycled.*

Empty container completely. Residues may cause an explosion hazard.

Do not puncture, cut or weld uncleaned drums. Risk of explosion.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 1173

14.2. UN Proper Shipping Name

ADR/RID: ETHYLACETAT

IMDG/IATA: ETHYL ACETATE

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-D

IATA Class: 3

Hazard no.: 3

14.4. Packaging Group

ADR/RID: II

IMDG: II

IATA: II

14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: no

Labelling according 5.2.1.6.3 IMDG: no

*Classification as environmentally hazardous according 2.9.3
IMDG: no*

Labelled with "P" according 2.10 IMDG: no

14.6. Special Precautions for User

*The rules for Dangerous Goods (ADR) must also be observed
within the company grounds.*

14.7. Maritime Transport in Bulk according to IMO Instruments

Not transported by sea in bulk.

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14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Seveso-III Directive (2012/18/EU):

Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t

Employment restrictions:

The employment restrictions for expectant and nursing mothers, and for young workers are to be observed.

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 40

Technical instructions on air quality:

5.2.5.: Organic substances (as total dust): > 25 wt-% ($m \geq 0.50$ kg/h, Konz. 50 mg/m³)

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15.3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable

RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS): not listed.

Fire hazard class (German "Flammable Liquids Ordinance" (VbF)): AI (flammable liquids of group A, hazardous class I)

Decopaint Directive (2004/42/EC):

VOC Content: 100 %

Listed in the following inventories:

EINECS (205-500-4), TSCA (US), AICS (AUS), DSL/INV (CA), ENCS/JEX/ISHL (JP; (2)-726), KECI (KR; KE-00047; 97-1-161), PICCS (PH), IECSC (CN)

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.