

Ethyl Acetate (Toluene Free)

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product form: Substance
Substance name: Ethyl Acetate
Chemical name: Ethyl Acetate
IUPAC name: Ethyl Acetate
EC Index-No.: 607-022-00-5
EC-No.: 205-500-4
CAS-No.: 141-78-6
REACH registration No.: 01-2119475103-46-XXXX
Type of product: Solvent.

Relevant identified uses:

Main use category: Industrial use. Professional use.
Use of the substance/mixture: Industrial Solvent.
Uses advised against: No additional information available.

Company name:

IBS Marine Supplies Ltd
Unit 5
7 Airfield Road
Christchurch
Dorset
BH23 3TQ
United Kingdom
Tel: +44 1621 744250 Open 09.00-17.00 GMT
Email: sales@ibs-boats.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Flammable liquids, Category 2: H225
Serious eye damage/eye irritation, Category 2: H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis: H336

Full text of H statements: See section 16.

Adverse physicochemical, human health and environmental effects:

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

[cont...]

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Label elements:

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictograms (CLP):



GHS02

GHS07

Signal Word: Danger.

Hazard statements (CLP): H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP): P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 - Ground and bond container and receiving equipment.
P261 - Avoid breathing mist, vapours, spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P312 - Call a POISON CENTER, doctor if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements: EUH066 - Repeated exposure may cause skin dryness or cracking.

Other hazards: No additional information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Substance type: Mono-constituent.

Name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl Acetate	CAS No.: 141-78-6 EC No.: 205-500-4 EC Index No.: 607-022-00-5 REACH No.: 01-2119475103-46-XXXX	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: See Section 16.

Mixtures: Not applicable.

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4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general: Call a poison centre or a doctor if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Call a poison centre or a doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Symptoms/effects: May cause drowsiness or dizziness.

Symptoms/effects after skin contact: Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact: Eye irritation.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

Special hazards arising from the substance or mixture:

Fire hazard: Highly flammable liquid and vapour. Vapours may cause fire/explosion if source of ignition is present.

Explosion hazard: Vapours may form explosive mixture with air.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

Advice for firefighters:

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing mist, vapours, spray. Avoid contact with skin and eyes.

For emergency responders:

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions: Avoid release to the environment.

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Methods and material for containment and cleaning up:

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorised site.

Reference to other sections: For further information refer to section 13.

7. HANDLING AND STORAGE

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 mist, vapours, spray. 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.

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.

Specific end use(s): No additional information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

National occupational exposure and biological limit values:

Ethyl Acetate (141-78-6):

United Kingdom - Occupational Exposure Limits:

Local name	Ethyl acetate
WEL TWA (OEL TWA) [1]	734 mg/m ³
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
WEL STEL (OEL STEL) [ppm]	400 ppm

Regulatory reference: EH40/2005 (Fourth edition, 2020). HSE

Recommended monitoring procedures: No additional information available

Air contaminants formed: No additional information available

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DNEL and PNEC:

Ethyl Acetate (141-78-6):

DNEL/DMEL (Workers):

Acute - systemic effects, inhalation	1468 mg/m ³
Acute - local effects, inhalation	1468 mg/m ³
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	734 mg/m ³
Long-term - local effects, inhalation	734 mg/m ³

DNEL/DMEL (General population):

Acute - systemic effects, inhalation	734 mg/m ³
Acute - local effects, inhalation	734 mg/m ³
Long-term - systemic effects, oral	4.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	367 mg/m ³
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day
Long-term - local effects, inhalation	367 mg/m ³

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
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PNEC (Oral):

PNEC oral (secondary poisoning)	0.2 g/kg food
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PNEC (STP):

PNEC sewage treatment plant	650 mg/l
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Control banding: No additional information available.

Exposure controls:

Appropriate engineering controls: Ensure good ventilation of the workstation.

Personal protective equipment: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Personal protective equipment symbol(s):



Eye and face protection:

Eye protection: Chemical goggles or face shield. EN 166.

Skin protection:

Skin and body protection: Wear suitable protective clothing.

Hand protection: Protective gloves.

Hand protection:

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
In case of contact through splashing, Repeated or prolonged exposure	Butyl rubber	3 (>60 mins)	0.5		EN 374-2. EN 374-3.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: No additional information available.

Environmental exposure controls: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Liquid.
Colour:	Colourless.
Appearance:	Clear, colourless liquid.
Molecular mass:	88.11 g/mol Source: ICSC.
Odour:	Fruity.
Odour threshold:	3.9 ppm Source: HSDB.
Melting point:	-83.6 °C Atm. press.: 1 atm Decomposition: 'no' Sublimation: 'no'.
Freezing point:	Not available.
Boiling point:	77.1 °C Atm. press.: 101,325 kPa Decomposition: 'no'.
Flammability:	Not applicable.
Explosive limits:	Not available.
Lower explosive limit (LEL):	Not available.
Upper explosive limit (UEL):	2.2 – 11.5 % Source: ICSC.
Flash point:	-4 °C Atm. press.: 1 atm.
Auto-ignition temperature:	427 °C Source: ICSC.
Decomposition temperature:	Not available.
pH:	Not available.
Viscosity, kinematic:	Not available.
Viscosity, dynamic:	0.451 mPa·s Temp.: '20°C' Parameter: 'dynamic viscosity (in mPa s)'.

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Solubility: Water: 6.4 g/100ml 25 °C Source: HSDB.

Partition coefficient n-octanol/water (Log Kow): 0.73 Source: ICSC.

Vapour pressure: 93.2 mm Hg 25°C Source: HSDB.

Vapour pressure at 50°C: Not available.

Density: Not available.

Relative density: 0.9 Source: ICSC.

Relative vapour density at 20°C: 3 Source: ICSC.

Particle size: Not applicable.

Particle size distribution: Not applicable.

Particle shape: Not applicable.

Particle aspect ratio: Not applicable.

Particle aggregation state: Not applicable.

Particle agglomeration state: Not applicable.

Particle specific surface area: Not applicable.

Particle dustiness: Not applicable.

Other information:

Information with regard to physical hazard classes: No additional information available.

Other safety characteristics:

Relative evaporation rate (butyl acetate=1): 6.2

VOC content: 100%

10. STABILITY AND REACTIVITY

Reactivity: Highly flammable liquid and vapour.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials: No additional information available

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity (oral): Not classified.

Acute toxicity (dermal): Not classified.

Acute toxicity (inhalation): Not classified.

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Ethyl Acetate (141-78-6):

LD50 oral rat: 11.3 ml/kg Source: ECHA
LD50 oral: 4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit: > 20000 mg/kg bodyweight. Animal: rabbit. Animal sex: male.

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 Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days): 900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
Aspiration hazard: Not classified.

Information on other hazards: No additional information available.

12. ECOLOGICAL INFORMATION

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. Not rapidly degradable.

LC50 – Fish [1]: 230 mg/l Test organisms (species): Pimephales promelas
NOEC (chronic): 2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Persistence and degradability: No additional information available.

Bioaccumulative potential:

Ethyl Acetate (141-78-6): Partition coefficient n-octanol/water (Log Pow): 0.73 Source: ICSC

Mobility in soil: No additional information available.

Results of PBT and vPvB assessment: No additional information available.

Endocrine disrupting properties: No additional information available.

Other adverse effects: No additional information available.

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information: Flammable vapours may accumulate in the container.

14. TRANSPORT INFORMATION

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

ADR	IMDG	IATA	ADN	RID
UN number or ID number: UN 1173	UN 1173	UN 1173	UN 1173	UN 1173
UN proper shipping name: ETHYL ACETATE	ETHYL ACETATE	Ethyl acetate	ETHYL ACETATE	ETHYL ACETATE

Transport document description:

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
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Transport hazard class(es):

3 3 3 3 3



Packing group:

II II II II II

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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No supplementary information available.

Overland transport:

Classification code (ADR):	F1
Limited quantities (ADR):	1L
Excepted quantities (ADR):	E2
Packing instructions (ADR):	P001, IBC02, R001
Mixed packing provisions (ADR):	MP19
Portable tank and bulk container instructions (ADR):	T4
Portable tank and bulk container special provisions (ADR):	TP1

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Tank code (ADR): LGBF
Vehicle for tank carriage: FL
Transport category (ADR): 2
Special provisions for carriage - Operation (ADR): S2, S20
Hazard identification number (Kemler No.): 33

Orange plates:



Tunnel restriction code (ADR): D/E
EAC code: 3YE

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.

Properties and observations (IMDG): Colourless liquid with a fragrant odour. Flashpoint: -4°C c.c. Explosive limits: 2.18% to 11.5% immiscible with water.

Air transport:

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): 1L
Excepted quantities (ADN): E2
Equipment required (ADN): PP, EX, A
Ventilation (ADN): VE01
Number of blue cones/lights (ADN): 1

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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

Maritime transport in bulk according to IMO instruments: Not applicable.

15. REGULATORY INFORMATION

National regulations: Listed on KECL/KECI (Korean Existing Chemicals Inventory).
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances).
Listed on the AICS (Australian Inventory of Chemical Substances).
Listed on the Canadian DSL (Domestic Substances List).
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory.
Listed on the Japanese ISHL (Industrial Safety and Health Law).
Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China).

Chemical safety assessment: No chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

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.

[cont...]

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Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by IBS Marine Supplies Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.