

SAFETY DATA SHEET TOLUENE FREE SOLVENT

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Toluene Free Solvent

Product number 203116-203119

REACH registration number 01-2119475103-46-0017

CAS number 141-78-6

EU index number 607-022-00-5

EC number 205-500-4

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

Identified uses Etchant/cleaner.

Uses advised against
No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier IBS BOAT SUPPLIES

FERRY RD

N FAMBRIDGE

ESSEX CM3 6LS

T: +44 (0) 1621 744250 F: +44 (0) 1621 744570 E: info@ibs-boats.com

1.4. Emergency telephone number

Emergency telephone +44 01621 744250 (NOT 24HRS)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

Classification (67/548/EEC F;R1

F;R11 Xi;R36 R66 R67

or 1999/45/EC)

2.2. Label elements

EC number 205-500-4

Pictogram





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, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with national regulations.

Contains ETHYL ACETATE

Supplementary precautionary P240 Ground/bond container and receiving equipment.

statements P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapour/spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHYL ACETATE 60-100%

CAS number: 141-78-EC number: 205-500-REACH registration number: 01-

2119475103-46-0017

Classification

Flam. Liq. 2 -H225 Eye Irrit. 2 **µ310 ST∩T SE 3** Classification (67/548/EEC or 1999/45/EC)

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Remove affected person from source of contamination.

Inhalation Move affected person to fresh air at once.

Ingestion DO NOT induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after

washing. Show this Safety Data Sheet to the medical personnel.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Vapours may cause drowsiness and dizziness. Irritation of nose, throat and airway.

Ingestion May cause chemical burns in mouth and throat.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact Severe irritation, burning and tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is flammable. Heating may generate flammable vapours. The product is highly

flammable.

Hazardous combustion

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

products vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during

Containers close to fire should be removed or cooled with water. Do not allow water to contact

firefighting any leaked material.

Special protective

Wear chemical protective suit.

equipment for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near

spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent

material.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Eliminate all sources of ignition. Vapours may accumulate on the floor and in low-lying areas.

Static electricity and formation of sparks must be prevented. Avoid inhalation of vapours and

spray/mists.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Store in closed original container at

temperatures between 5°C and 25°C.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 200 ppm Short-term exposure limit (15-minute): WEL 400 ppm

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm Short-term exposure limit (15-minute): WEL 400 ppm

WEL = Workplace Exposure Limit

DNEL Workers - Inhalation; Short term systemic effects: 1468 mg/m³

Workers - Inhalation; Short term local effects: 1468 mg/m³
Consumer - Inhalation; Short term systemic effects: 734 mg/m³
Consumer - Inhalation; Short term local effects: 374 mg/m³

Workers - Inhalation; Long term local effects: 734 mg/m³

Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 734 mg/m³

Consumer - Dermal; Long term systemic effects: 37 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 367 mg/m³ Consumer - Oral; Long term systemic effects: 4.5 mg/kg bw/day Consumer - Inhalation; Long term local effects: 367 mg/m³

PNEC

- Fresh water; 0.26 mg/l

- Marine water; 0.026 mg/l

- Intermittent release; 1.65 mg/l

Sediment (Freshwater); 1.25 mg/kgSediment (Marinewater); 0.125 mg/kg

Soil; 0.24 mg/kgSTP; 650 mg/l

ETHYL ACETATE (CAS: 141-78-6)

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Soil; 0.24 mg/kgSTP; 650 mg/l

8.2. Exposure controls

Protective equipment









Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Viton rubber (fluoro rubber).

Other skin and

Wear suitable protective clothing as protection against splashing or contamination.

body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash

hands after handling.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure

Keep container tightly sealed when not in use.

controls

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Colourless.

Odour Fruity.

Odour threshold Not available.

pH Not available.

Melting point -84°C

Initial boiling point and range 76°C @

Flash point -4°C CC (Closed cup).

Evaporation rate very fast

Evaporation factor Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability

or explosive limits

: 2-11.5%

Other flammability Not available.

Vapour pressure 98hPa @ °C

Vapour density >1 g/cm³

Relative density 0.9003 g/cm³ @ 20°C

Bulk density Not available.

Solubility(ies) Insoluble in water.

Partition coefficient Not available.

Auto-ignition temperature 427°C

Decomposition Temperature Not available.

Viscosity Kinematic viscosity ≤ 20.5 mm²/s.

Explosive properties Not available.

Explosive under the Not considered to be explosive.

influence of a flame

Oxidising properties Not available.

Comments Information given is applicable to the product as supplied.

9.2. Other information

Other information No information required.

Refractive index Not available.

Particle size Not available.

Molecular weight Not available.

Volatility Not available.

Saturation concentration Not available.

Critical temperature Not available.

Volatile organic compound This product contains a maximum VOC content of 903 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of Not applicable.

hazardous reactions

10.4. Conditions to avoid

Conditions to avoid Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid Acids - oxidising. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition Does not decompose when used and stored as recommended.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information on ingredients.

ETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral 4,100.0

(LD₅o mg/kg)

Species Mouse

ATE oral (mg/kg) 4,100.0

Acute toxicity - dermal

Acute toxicity dermal 20,000.0

(LD₅o mg/kg)

Species Rabbit

ATE dermal (mg/kg) 20,000.0

Acute toxicity - inhalation

Acute toxicity 30.0

inhalation (LC₅₀ vapours mg/l)

Species Rat

ATE inhalation 30.0

(vapours mg/l)

SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity - fish EC50, 48 hours: 610 mg/l, Fish

LC₅o, 96 hours: 230 mg/l, Fish

Acute toxicity - EC₅₀, 48 hours: 11.5 mg/l, Daphnia magna

aquatic invertebrates

Acute toxicity - aquatic plants EC₅₀, 48 hours: 5600 mg/l, Algae

Ecological information on ingredients.

ETHYL ACETATE

Acute toxicity - fish EC₅₀, 48 hours: 610 mg/l, Fish

LC₅₀, 96 hours: 230 mg/l, Fish

Acute toxicity - EC₅₀, 48 hours: 11.5 mg/l, Daphnia magna

aquatic invertebrates

Acute toxicity - EC₅₀, 48 hours: 5600 mg/l, Algae

aquatic plants

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulative potential BCF: 30,

Partition coefficient Not available.

Ecological information on ingredients.

ETHYL ACETATE

Bioaccumulative potential BCF: 30,

Partition coefficient Not available.

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all

surfaces.

Ecological information on ingredients.

ETHYL ACETATE

Mobility The product contains volatile organic compounds (VOCs) which will evaporate

easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Results of PBT and This product does not contain any substances classified as PBT or vPvB.

vPvB assessment

Ecological information on ingredients.

ETHYL ACETATE

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not known.

Ecological information on ingredients.

ETHYL ACETATE

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Residues and empty containers should be taken care of as

hazardous waste according to local and national provisions.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1173

UN No. (IMDG) 1173

UN No. (ICAO) 1173

UN No. (ADN) 1173

14.2. UN proper shipping name

Proper shipping name

ETHYL ACETATE

(ADR/RID)

Proper shipping

ETHYL ACETATE

name (IMDG)

Proper shipping name (ICAO) ETHYL ACETATE

Proper shipping name (ADN) ETHYL ACETATE

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group

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IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 2

Emergency Action Code •3YE

Hazard Identification Number 33

(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Restrictions (Title VIII

not to be sold to the general public above 0.1%

Regulation 1907/2006)

Water hazard classification WGK 2

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by Compliance

Revision date 01/06/2015

Revision 20

SDS number 20253

SDS status Approved.

Risk phrases in full R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Store Between 5'c - 25'c

Contains SVHC NO