



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

**SIROFLEX SOLVENT CLEANER**  
Supersedes date 05-Jun-2023

Revision date 07-Jul-2025  
Revision Number 1.02

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

### 1.1. Product identifier

Product Name SIROFLEX SOLVENT CLEANER

Pure substance/mixture Mixture

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

Recommended use Consumer use

Uses advised against None known

### 1.3. Details of the supplier of the safety data sheet

#### Company Name

Bostik Limited  
Common Rd  
ST16 3EH  
Stafford UK  
Tel: +44 (1785) 27 26 25  
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

United Kingdom Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)  
NHS: 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Flammable liquids	Category 2 - (H225)
Eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Category 3 Target organ effects: Narcotic effects.	
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Aspiration hazard	Category 1 - (H304)
Hazardous to the aquatic environment - chronic	Category 2 - (H411)

### 2.2. Label elements

Contains Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; n-Butyl acetate; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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**Signal word**  
Danger

## Hazard statements

H304 - May be fatal if swallowed and enters airways.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.  
H225 - Highly flammable liquid and vapour.

## Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P260 - Do not breathe mist/vapours/spray  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves and eye/face protection  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P331 - Do NOT induce vomiting  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P391 - Collect spillage  
P403 + P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

This product requires child resistant fastenings when supplied to the general public unless the product is placed on the market in the form of aerosols or in a container with a sealed spray attachment. This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

Causes mild skin irritation. In use, may form flammable/explosive vapour-air mixture.

## PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No.	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
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				1272/2008 [CLP]				
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics RR-100218-2	40 - <80	01-2119473851-33-XXXX	920-750-0	STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066) Flam. Liq. 2 (H225)	-	-	-	-
n-Butyl acetate 123-86-4	20 - <25	01-2119485493-29-XXXX	204-658-1 (607-025-00-1)	STOT SE 3 (H336) Flam. Liq. 3 (H226) (EUH066) [B]	-	-	-	-
Ethanol 64-17-5	10 - <20	01-2119457610-43-XXXX	200-578-6 (603-002-00-5)	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	-	-	-	-
2-Butoxyethanol 111-76-2	5 - <10	01-2119475108-36-XXXX	203-905-0 (603-014-00-0)	Acute Tox. 4 (H302) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-	-	-	-
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) RR-91855-8	5 - <10	01-2119458049-33-XXXX	919-446-0	STOT SE 3 (H336) STOT RE 1 (H372) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) (EUH066)	-	-	-	-
Ethyl acetate 141-78-6	0.1 - <1	01-2119475103-46-XXXX	205-500-4 (607-022-00-5)	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	-

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes  
 [B] - Substance with a Community workplace exposure limit

**Full text of H- and EUH-phrases: see section 16**

## Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No. (Index No.)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0	RR-100218-2	-	-	-	-	-
n-Butyl acetate	204-658-1 (607-025-00-1)	123-86-4	-	-	0.74	-	-
Ethanol	200-578-6 (603-002-00-5)	64-17-5	-	-	-	-	-
2-Butoxyethanol	203-905-0 (603-014-00-0)	111-76-2	1200 <sup>+</sup>	-	3 <sup>+</sup>	3 <sup>+</sup>	3 <sup>+</sup>
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	919-446-0	RR-91855-8	-	3400	-	-	-

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Chemical name	EC No. (Index No.)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ethyl acetate	205-500-4 (607-022-00-5)	141-78-6	-	-	-	14.4131	-

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

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

<b>Symptoms</b>	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged contact may cause redness and irritation.
<b>Effects of Exposure</b>	May cause damage to organs through prolonged or repeated exposure.

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

<b>Note to doctors</b>	Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.
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## SECTION 5: Firefighting measures

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## 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media** No information available.

## 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. 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.

**Hazardous combustion products** Carbon oxides. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Aldehydes.

## 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

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## Advice on safe handling

Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

## General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 7.2. Conditions for safe storage, including any incompatibilities

### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

### Recommended storage temperature

Keep at temperatures between 5 and 25 °C.

## 7.3. Specific end use(s)

### Specific use(s)

Consumer use.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

### Other information

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	United Kingdom
n-Butyl acetate 123-86-4	TWA: 241 mg/m <sup>3</sup> ; TWA: 50 ppm; STEL: 723 mg/m <sup>3</sup> ; STEL: 150 ppm;	TWA: 150 ppm; TWA: 724 mg/m <sup>3</sup> ; STEL: 200 ppm; STEL: 966 mg/m <sup>3</sup> ;
Ethanol 64-17-5	-	TWA: 1000 ppm; TWA: 1920 mg/m <sup>3</sup> ; STEL: 3000 ppm; STEL: 5760 mg/m <sup>3</sup> ;
2-Butoxyethanol 111-76-2	TWA: 20 ppm; TWA: 98 mg/m <sup>3</sup> ; STEL: 50 ppm; STEL: 246 mg/m <sup>3</sup> ; pSk	TWA: 25 ppm; TWA: 123 mg/m <sup>3</sup> ; STEL: 50 ppm; STEL: 246 mg/m <sup>3</sup> ; pSk
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) RR-91855-8	-	TWA: 350 mg/m <sup>3</sup>
Ethyl acetate 141-78-6	TWA: 734 mg/m <sup>3</sup> ; TWA: 200 ppm; STEL: 1468 mg/m <sup>3</sup> ; STEL: 400 ppm;	TWA: 734 mg/m <sup>3</sup> ; TWA: 200 ppm; STEL: 1468 mg/m <sup>3</sup> ; STEL: 400 ppm;

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Chemical name	European Union	Ireland	United Kingdom
2-Butoxyethanol 111-76-2	-	200 mg/g Creatinine (urine - end of shift)	240 mmol/mol creatinine - urine (Butoxyacetic acid) - post shift

**Derived No Effect Level (DNEL)** No information available

Derived No Effect Level (DNEL)			
n-Butyl acetate (123-86-4)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	300 mg/m <sup>3</sup>	
worker Short term Systemic health effects	Inhalation	600 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	300 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	600 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	11 mg/kg bw/d	

Ethanol (64-17-5)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	950 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	343 mg/kg bw/d	

2-Butoxyethanol (111-76-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Systemic health effects Long term	Inhalation	98 mg/m <sup>3</sup>	
worker Systemic health effects Long term	Dermal	125 mg/kg bw/d	

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (RR-91855-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	330 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	44 mg/kg bw/d	

Ethyl acetate (141-78-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Dermal	63 mg/kg bw/d	

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Long term Systemic health effects			
worker Short term Systemic health effects	Inhalation	1468 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	734 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	1468 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Inhalation	734 mg/m <sup>3</sup>	

<b>Derived No Effect Level (DNEL)</b>			
<b>n-Butyl acetate (123-86-4)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	35.7 mg/m <sup>3</sup>	
Consumer Short term Systemic health effects	Inhalation	300 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	35.7 mg/m <sup>3</sup>	
Consumer Short term Local health effects	Inhalation	300 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	6 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	6 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	2 mg/kg bw/d	

<b>Ethanol (64-17-5)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	114 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	206 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	87 mg/kg bw/d	

<b>2-Butoxyethanol (111-76-2)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Systemic health effects	Inhalation	59 mg/m <sup>3</sup>	



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Long term			
Consumer Systemic health effects Long term	Dermal	75 mg/kg bw/d	
Consumer Systemic health effects Long term	Oral	6,3 mg/kg bw/d	

## Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (RR-91855-8)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	71 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	26 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	26 mg/kg bw/d	

## Ethyl acetate (141-78-6)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	4.5 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	37 mg/kg bw/d	
Consumer Short term Systemic health effects	Inhalation	734 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	367 mg/m <sup>3</sup>	
Consumer Short term Local health effects	Inhalation	734 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Inhalation	367 mg/m <sup>3</sup>	

## Predicted No Effect Concentration (PNEC)

### Predicted No Effect Concentration (PNEC)

#### n-Butyl acetate (123-86-4)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.18 mg/l
Marine water	0.018 mg/l
Freshwater - intermittent	0.36 mg/l
Sewage treatment plant	35.6 mg/l
Freshwater sediment	0.981 mg/l
Marine sediment	0.0981 mg/l
Soil	0.0903 mg/l

#### Ethanol (64-17-5)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	154 mg/l

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Marine water	15.4 mg/l
Sewage treatment plant	100 mg/l

2-Butoxyethanol (111-76-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	8,8 mg/l
Marine water	0,88 mg/l
Sewage treatment plant	463 mg/l
Freshwater sediment	34,6 mg/kg dry weight
Marine sediment	3,46 mg/kg dry weight
Soil	2,33 mg/kg dry weight

Ethyl acetate (141-78-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.24 mg/l
Marine water	0.024 mg/l
Freshwater sediment	1.15 mg/kg
Marine sediment	0.115 mg/kg
Soil	0.148 mg/kg
Microorganisms in sewage treatment	650 mg/l

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

## Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.  
**Hand protection** Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature.  
**Skin and body protection** Suitable protective clothing.  
**Respiratory protection** In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.  
**Recommended filter type:** Organic gases and vapours filter conforming to EN 14387.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Liquid  
**Colour** Colourless  
**Odour** Solvent.

Property	Values	Remarks • Method
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	78.4 - 115.4 °C	None known
<b>Flammability</b>	No data available	Flammable liquid
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	19	
<b>Lower flammability or explosive limits</b>	3.3	
<b>Flash point</b>	12 °C	None known
<b>Autoignition temperature</b>	230 °C	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	7	Not applicable. Insoluble in water.
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	
<b>Water solubility</b>	Insoluble in water.	None known

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Solubility(ies)	Acetone	None known
Partition coefficient	No data available	None known
Vapour pressure	5.8	None known
Relative density	0.744	None known
Bulk density	No data available	
Density	0.774	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

## 9.2. Other information

Solid content (%)	No information available
VOC content	No data available

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	No information available.
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### 10.2. Chemical stability

Stability	Stable under normal conditions.
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### Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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### 10.4. Conditions to avoid

Conditions to avoid	Heat, flames and sparks.
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### 10.5. Incompatible materials

Incompatible materials	None known based on information supplied.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal use conditions. Stable under recommended storage conditions.
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## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

#### Product Information

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<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Prolonged contact may cause redness and irritation. Causes mild skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

## Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged contact may cause redness and irritation.
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## Acute toxicity

### Numerical measures of toxicity

The following ATE values have been calculated for the mixture

<b>ATEmix (oral)</b>	12,121.20 mg/kg
<b>ATEmix (dermal)</b>	>2000 mg/kg
<b>ATEmix (inhalation-gas)</b>	>20000 ppm
<b>ATEmix (inhalation-dust/mist)</b>	>5 mg/l
<b>ATEmix (inhalation-vapour)</b>	30.3030 mg/l

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
n-Butyl acetate	>10650 mg/kg (Rattus)	> 17600 mg/kg (Oryctolagus cuniculus)	=390 ppm (Rattus) 4 h
Ethanol	6200 - 15000 mg/kg (Rattus) OECD 401	-	=124.7 mg/L (Rattus) 4 h
2-Butoxyethanol	=1476 mg/kg (Rattus)(OECD 401)	LD 0 >2000 mg/kg (guinea pig) (OECD 402)	LC 0 (1h) > 3.1 mg/l (guinea pig)
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LD50 >15000 mg/Kg (Rattus) OECD 401	LD50 > 3400 mg/kg (Rattus) OECD 402	LC50 (4hrs) >13.1 mg/l (Rattus)
Ethyl acetate	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus)	LC0 29.3 mg/l air

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes mild skin irritation.
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n-Butyl acetate (123-86-4)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit	Dermal		4 hours	Non-irritant

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Acute Dermal Irritation/Corrosion					
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## Ethyl acetate (141-78-6)

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

## n-Butyl acetate (123-86-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Corneal	0.1 mL		Product score 1 Non-irritant

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

## Component Information

### Ethyl acetate (141-78-6)

Method	Species	Results
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	in vivo Hamster	Negative
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro Salmonella typhimurium	Negative
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro Hamster Ovary	Negative

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** May cause drowsiness or dizziness.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

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## 12.1. Toxicity

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
n-Butyl acetate 123-86-4	EC50: =674.7mg/L (72h, Desmodesmus subspicatus)	LC50 96 h 17 - 19 mg/L (Pimephales promelas flow-through)	EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min	EC50 48 h = 44 mg/L (Daphnia magna )		
Ethanol 64-17-5	EC50 72hr 12.9 g/l (Selenastrum capricornutum) NOEC 3.24 g/l (Skeletonema costatum)	LC50: >100mg/L (96h, Pimephales promelas)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50: (48h, Daphnia magna) EC50: =12.34 mg/L		
2-Butoxyethanol 111-76-2	EC50 (72h) = 1840 mg/L (Pseudokirchner iella subcapitata) OECD 201	LC50: =1490mg/L (96h, Lepomis macrochirus) LC50: =2950mg/L (96h, Lepomis macrochirus)	-	EC50: >1000mg/L (48h, Daphnia magna) EC50: 1698 - 1940mg/L (24h, Daphnia magna)		
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) RR-91855-8	EL50 (72h) = 4.1 mg/l ( Pseudokirchner iella subcapitata) OECD 401	LL50 96hr 10-30 mg/l (Oncorhynchus mykiss)	-	EL50 48hr 10-30mg/l (daphnia magna)		
Ethyl acetate 141-78-6	EC50: =3300mg/L (48h, Desmodesmus subspicatus)	LC50: =484mg/L (96h, Oncorhynchus mykiss) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50: 220 - 250mg/L (96h, Pimephales promelas)	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50: =560mg/L (48h, Daphnia magna)		

## 12.2. Persistence and degradability

### Persistence and degradability

No information available.

n-Butyl acetate (123-86-4)			
Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	83%	Readily biodegradable

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (RR-91855-8)			
Method	Exposure time	Value	Results
	28 days	biodegradation	74.7 % Readily biodegradable

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## 12.3. Bioaccumulative potential

### Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
n-Butyl acetate	2.3
Ethanol	-0.35
2-Butoxyethanol	0.81
Ethyl acetate	0.73

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Not PBT/vPvB
n-Butyl acetate	Not PBT/vPvB
Ethanol	Not PBT/vPvB
2-Butoxyethanol	Not PBT/vPvB
Ethyl acetate	Not PBT/vPvB

## 12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

## 12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
European Waste Catalogue	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10*: Packaging containing residues of or contaminated by dangerous substances
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	Flammable liquid, n.o.s. (Ethyl acetate)

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14.3 Transport hazard class(es)	3
Labels	3
14.4 Packing group	I
Description	UN1993, Flammable liquid, n.o.s. (Ethyl acetate), 3, I, (D/E), Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274
Classification code	F1
Tunnel restriction code	(D/E)
Limited quantity (LQ)	0
ADR Hazard Id (Kemmler Number)	33

## IMDG

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	Flammable liquid, n.o.s. (Ethyl acetate, Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)
14.3 Transport hazard class(es)	3
14.4 Packing group	I
Description	UN1993, Flammable liquid, n.o.s. (Ethyl acetate, Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), 3, I, (12°C c.c.), Marine pollutant
14.5 Marine pollutant	P
14.6 Special precautions for user	
Special Provisions	274
Limited Quantity (LQ)	0
EmS-No.	F-E, S-E
14.7 Maritime transport in bulk according to IMO instruments	
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

## Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	Flammable liquid, n.o.s. (Ethyl acetate)
14.3 Transport hazard class(es)	3
14.4 Packing group	I
Description	UN1993, Flammable liquid, n.o.s. (Ethyl acetate), 3, I
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A3
Limited quantity (LQ)	Forbidden
ERG Code	3H

## SECTION 15: Regulatory information

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

#### European Union

#### Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).



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## Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

## Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

## Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

## Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable

## Persistent Organic Pollutants

Not applicable

## REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

Not applicable

## Regulations on drug precursors (EC) No 111/2005 (export) and 273/2004 (internal trade)

This product does not contain any substance(s) on the Drug Precursors list.

## National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## SECTION 16: Other information

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

#### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H331 - Toxic if inhaled

H336 - May cause drowsiness or dizziness

H372 - Causes damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

#### Legend

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling

Ceiling Limit Value

Sk\*

Skin designation

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SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

## Key literature references and sources for data

No information available

<b>Prepared By</b>	Product Safety & Regulatory Affairs
<b>Revision date</b>	07-Jul-2025
<b><u>Indication of changes</u></b>	

<b>Revision Note</b>	Not applicable.
<b>Training Advice</b>	No information available
<b>Further information</b>	No information available

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**

## Disclaimer

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.

**End of Safety Data Sheet**