SAFETY DATA SHEET
S1922 TOLUENE FREE

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

1.1. Product identifier

Product name S1922 TOLUENE FREE

Product number 64179

Synonyms; trade names S1922 TF

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

Identified uses Adhesive. Industrial application

Uses advised against Professional Consumer

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 64179

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms

Signal word Danger

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Hazard statements	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray. P273 Avoid release to the environment. P312 Call a POISON CENTRE/doctor if you feel unwell. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Contains	CYCLOHEXANE, ACETONE, BUTANONE, HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS, HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

CYCLOHEXANE **20 - 35%**

CAS number: 110-82-7	EC number: 203-806-2	REACH registration number: 01-2119463273-41-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

ACETONE **10 - 20%**

CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-XXXX

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

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HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS **5 - 10%**

CAS number: — EC number: 920-750-0 REACH registration number: 01-2119473851-33-XXXX

Classification
Flam. Liq. 2 - H225
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS **5 - 10%**

CAS number: 64742-49-0 EC number: 927-510-4 REACH registration number: 01-2119475515-33-XXXX

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

BUTANONE **5 - 10%**

CAS number: 78-93-3 EC number: 201-159-0 REACH registration number: 01-2119457290-43-XXXX

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

ETHANOL **1 - 5%**

CAS number: 64-17-5 EC number: 200-578-6 REACH registration number: 01-2119457610-43-XXXX

Acute Toxicity Estimate (oral):
LD_{50} 10470 mg/kg, Oral, Rat
Acute Toxicity Estimate (dermal):
LD_{50} 15800 mg/kg, Dermal, Rat
Acute Toxicity Estimate (inhalation):
LC_{50} 20 mg/l, Inhalation, Rat
Eye Irrit. 2 - H319
≥ 50 %

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319

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XYLENE		**< 1%**
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-XXXX

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335
STOT RE 2 - H373
Asp. Tox. 1 - H304
Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel.

Skin contact After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues.

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 any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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 May cause drowsiness or dizziness. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion May cause stomach pain or vomiting.

Skin contact Causes skin irritation. Prolonged contact may cause redness, irritation and dry skin.

Eye contact Causes serious eye irritation. Overexposure may cause the following adverse effects: Redness. Pain.

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

Notes for the doctor Treat symptomatically. If in doubt, get medical attention promptly.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

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 When heated and in case of fire, toxic vapours/gases may be formed. Heating may generate flammable vapours. The product is highly flammable. Vapours may form explosive mixtures with air. Vapours may accumulate on the floor and in low-lying areas.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrogen chloride (HCl). Oxides of the following substances: Carbon.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if safe to do so. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Keep away from heat, sparks and open flame. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

Advice on general occupational hygiene Wash promptly with soap and water if skin becomes contaminated. Use appropriate hand lotion to prevent defatting and cracking of skin.

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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from oxidising materials, heat and flames. Store at temperatures between 5°C and 25°C.

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

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³
Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m³

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³
Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

BUTANONE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 600 mg/m³
Short-term exposure limit (15-minute): WEL 300 ppm 899 mg/m³
Sk, BMGV

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

XYLENE

Sk
Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³
Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³
Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³
Sk

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³
Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³
Sk

FORMALDEHYDE ...%

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³
Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

WEL = Workplace Exposure Limit.
Sk = Can be absorbed through the skin.
BMGV = Biological monitoring guidance value.

Ingredient comments Observe any occupational exposure limits for the product or ingredients.

CYCLOHEXANE (CAS: 110-82-7)

Ingredient comments WEL = Workplace Exposure Limits

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DNEL

Workers - Inhalation; Long term systemic effects: 700 mg/m³
Workers - Inhalation; Short term systemic effects: 700 mg/m³
Workers - Inhalation; Long term local effects: 700 mg/m³
Workers - Inhalation; Long term local effects: 700 mg/m³
Workers - Dermal; Long term systemic effects: 2016 mg/kg/day
General population - Inhalation; Long term systemic effects: 206 mg/m³
General population - Inhalation; Short term systemic effects: 412 mg/m³
General population - Inhalation; Long term local effects: 206 mg/m³
General population - Inhalation; Short term local effects: 412 mg/m³
General population - Dermal; Long term systemic effects: 1186 mg/kg/day
General population - Oral; Long term systemic effects: 59.4 mg/kg/day

PNEC

- Fresh water; 0.207 mg/l
- marine water; 0.207 mg/l
- Intermittent release; 0.207 mg/l
- STP; 3.24 mg/l
- Sediment (Freshwater); 3.627 mg/kg
- Sediment (Marinewater); 3.627 mg/kg
- Soil; 2.99 mg/kg

ACETONE (CAS: 67-64-1)

Ingredient comments

WEL = Workplace Exposure Limits

DNEL

Industry - Dermal; Long term systemic effects: 186 mg/kg/day
Industry - Inhalation; Short term local effects: 2420 mg/m³
Industry - Inhalation; Long term systemic effects: 1210 mg/m³
Consumer - Oral; Long term systemic effects: 62 mg/kg/day
Consumer - Dermal; Long term systemic effects: 62 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 200 mg/m³

PNEC

- Fresh water; 10.6 mg/l
- marine water; 1.06 mg/l
Sediment (Freshwater); 30.4 mg/kg
Sediment (Marinewater); 3.04 mg/kg
- Soil; 29.5 mg/l
- STP; 100 mg/l

BUTANONE (CAS: 78-93-3)

Ingredient comments

WEL = Workplace Exposure Limits

DNEL

Industry - Dermal; Long term systemic effects: 1161 mg/kg/day
Industry - Inhalation; Long term systemic effects: 600 mg/m³
Consumer - Dermal; Long term systemic effects: 412 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 106 mg/m³
Consumer - Oral; Long term systemic effects: 31 mg/kg/day

PNEC

- Fresh water; 55.8 mg/l
- marine water; 55.8 mg/l
- STP; 709 mg/l
- Sediment; 284.7 mg/kg
- Soil; 22.5 mg/kg
- Intermittent release; 55.8 mg/l

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

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Ingredient comments No exposure limits known for ingredient(s).

DNEL
Industry - Dermal; : 773 mg/kg/day
Industry - Inhalation; : 2035 mg/m³
Consumer - Dermal; : 699 mg/kg/day
Consumer - Inhalation; : 608 mg/m³
Consumer - Oral; Long term : 699 mg/kg/day

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS (CAS: 64742-49-0)

DNEL
Industry - Dermal; Long term systemic effects: 300 mg/kg/day
Industry - Inhalation; Long term systemic effects: 2085 mg/m³
Consumer - Inhalation; Long term systemic effects: 477 mg/m³
Consumer - Oral; Long term systemic effects: 149 mg/kg/day
Consumer - Dermal; Long term systemic effects: 149 mg/kg/day

ETHANOL (CAS: 64-17-5)

Ingredient comments WEL = Workplace Exposure Limits

DNEL
Workers - Inhalation; Long term systemic effects: 950 mg/m³
Workers - Inhalation; Short term local effects: 1900 mg/m³
Workers - Dermal; Long term systemic effects: 343 mg/kg/day
General population - Inhalation; Long term systemic effects: 114 mg/m³
General population - Inhalation; Short term local effects: 950 mg/m³
General population - Dermal; Long term systemic effects: 206 mg/kg/day
General population - Oral; Long term systemic effects: 87 mg/kg/day

PNEC
- Fresh water; 0.96 mg/l
- marine water; 0.79 mg/l
- Intermittent release; 2.75 mg/l
- STP; 580 mg/l
- Sediment (Freshwater); 3.6 mg/kg
- Sediment (Marinewater); 2.9 mg/kg
- Soil; 0.63 mg/kg

XYLENE (CAS: 1330-20-7)

Ingredient comments WEL = Workplace Exposure Limits

DNEL
Workers - Inhalation; Short term systemic effects: 289 mg/m³
Workers - Inhalation; Short term local effects: 289 mg/m³
Workers - Dermal; Long term systemic effects: 180 mg/kg/day
Workers - Inhalation; Long term systemic effects: 77 mg/m³
Workers - Inhalation; Long term local effects: 77 mg/m³
General population - Inhalation; Short term systemic effects: 174 mg/m³
General population - Inhalation; Short term local effects: 174 mg/m³
General population - Dermal; Long term systemic effects: 108 mg/kg/day
General population - Inhalation; Long term systemic effects: 14.8 mg/m³
General population - Oral; Long term systemic effects: 1.6 mg/kg/day

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PNEC

- Fresh water; 0.327 mg/l
- marine water; 0.327 mg/l
- Intermittent release; 0.327 mg/l
- STP; 6.58 mg/l
- Sediment (Freshwater); 12.46 mg/kg
- Sediment (Marinewater); 12.46 mg/kg
- Soil; 2.31 mg/kg

ETHYLBENZENE (CAS: 100-41-4)

DNEL

Workers - Inhalation; Long term systemic effects: 77 mg/m³
Workers - Inhalation; Short term local effects: 293 mg/m³
Workers - Dermal; Long term systemic effects: 180 mg/kg/day
General population - Inhalation; Long term systemic effects: 15 mg/m³
General population - Oral; Long term systemic effects: 1.6 mg/kg/day

PNEC

- Fresh water; 0.1 mg/l
- marine water; 0.01 mg/l
- Intermittent release; 0.1 mg/l
- STP; 9.6 mg/l
- Sediment (Freshwater); 13.7 mg/kg
- Sediment (Marinewater); 1.37 mg/kg
- Soil; 2.68 mg/kg

FORMALDEHYDE ...% (CAS: 50-00-0)

DNEL

Workers - Dermal; Long term systemic effects: 240 mg/kg/day
Workers - Inhalation; Long term systemic effects: 9 mg/m³
Workers - Inhalation; Short term local effects: 0.75 mg/m³
Workers - Inhalation; Long term local effects: 0.375 mg/m³
Workers - Dermal; Long term local effects: 0.037 mg/m³
Consumer - Inhalation; Long term local effects: 0.1 mg/m³
Consumer - Dermal; Long term systemic effects: 102 mg/kg/day
Consumer - Dermal; Long term local effects: 0.012 mg/m³
Consumer - Oral; Long term systemic effects: 4.1 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 3.2 mg/m³

PNEC

- Fresh water; 0.47 mg/l
- marine water; 0.47 mg/l
- Intermittent release; 4.7 mg/l
- Sediment; 2.44 mg/kg
- Sediment (Marinewater); 2.44 mg/kg
- Soil; 0.21 mg/kg
- STP; 0.19 mg/l

METHANOL (CAS: 67-56-1)

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DNEL	Workers - Inhalation; Long term systemic effects: 130 mg/m³ Workers - Inhalation; Short term systemic effects: 130 mg/m³ Workers - Inhalation; Long term local effects: 130 mg/m³ Workers - Inhalation; Short term local effects: 130 mg/m³ Workers - Dermal; Long term systemic effects: 20 mg/m³ Workers - Dermal; Long term systemic effects: 20 mg/kg/day General population - Inhalation; Long term systemic effects: 26 mg/m³ General population - Inhalation; Short term systemic effects: 26 mg/m³ General population - Inhalation; Long term local effects: 26 mg/m³ General population - Inhalation; Short term local effects: 26 mg/m³ General population - Dermal; Long term systemic effects: 5 mg/kg/day General population - Dermal; Short term systemic effects: 5 mg/kg/day General population - Oral; Long term systemic effects: 5 mg/kg/day General population - Oral; Short term systemic effects: 5 mg/kg/day
DMEL	Workers - Dermal; Long term systemic effects: 40 mg/kg/day
PNEC	- Fresh water; 20.8 mg/l - marine water; 2.08 mg/l - Intermittent release; 1540 mg/l - STP; 100 mg/l - Sediment (Freshwater); 77 mg/kg - Sediment (Marinewater); 7.7 mg/kg - Soil; 100 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 6 hours. Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

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Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Combination filter, type A2/P3. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Organic solvents.
Odour threshold	Not determined.
pH	No information available.
Melting point	Not applicable.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	No information available.
Flash point	- 7°C Closed cup.
Evaporation rate	No information available.
Evaporation factor	Not determined.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1 Upper flammable/explosive limit: 19
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	0.818 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	9.0 - 10.0, ISO 976
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	No information available.
Explosive properties	Not determined.
Explosive under the influence of a flame	No information available.
Oxidising properties	Not determined.

9.2. Other information

Refractive index	Not applicable.

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Particle size	No information available.
Molecular weight	Not applicable.
Volatility	Highly volatile.
Saturation concentration	No information available.
Critical temperature	Not determined.
Volatile organic compound	This product contains a maximum VOC content of 683 g/l.

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 hazardous reactions	Not applicable.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrogen chloride (HCl). Oxides of the following substances: Carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50})	Not determined.

Acute toxicity - dermal

Notes (dermal LD_{50})	Not determined.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Not determined.

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	No information available.

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Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	May cause drowsiness or dizziness.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Causes skin irritation. Product has a defatting effect on skin. May cause allergic contact eczema.
Eye contact	Causes serious eye irritation.
Route of exposure	Inhalation Skin absorption
Medical symptoms	Symptoms following overexposure to vapour may include the following: Dry skin. Headache. Intoxication.

Toxicological information on ingredients.

CYCLOHEXANE

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	32.88
Species	Rat
ATE inhalation (vapours mg/l)	32.88

Skin corrosion/irritation

Animal data	Irritating.

Serious eye damage/irritation

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Serious eye damage/irritation	No information available.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

Inhalation	Vapours may cause drowsiness and dizziness. Vapours may irritate throat/respiratory system.
Ingestion	May be fatal if swallowed and enters airways. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Irritating to skin.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.

ACETONE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,800.0
Species	Rat
Notes (oral LD_{50})	OECD 401

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	15,800.0
Species	Rat

Acute toxicity - inhalation

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Acute toxicity inhalation (LC_{50} vapours mg/l)	76.0
Species	Rat
ATE inhalation (vapours mg/l)	76.0

Skin corrosion/irritation

Skin corrosion/irritation	May cause skin irritation.
Animal data	No information available.

Serious eye damage/irritation

Serious eye damage/irritation	No information available.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	No information available.

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	No information available.

Inhalation	Drowsiness, dizziness, disorientation, vertigo. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion	May cause nausea, headache, dizziness and intoxication. Gastrointestinal symptoms, including upset stomach. Central nervous system depression.
Skin contact	Irritating to skin. Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Acute toxicity - oral

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Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
Notes (oral LD_{50})	OECD 401

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,800.0
Species	Rat
Notes (dermal LD_{50})	OECD 402

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	23.3
Species	Rat
Notes (inhalation LC_{50})	OECD 403
ATE inhalation (vapours mg/l)	23.3

Skin corrosion/irritation

Animal data	No information available.

Serious eye damage/irritation

Serious eye damage/irritation	No information available.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	No information available.

Germ cell mutagenicity

Genotoxicity - in vitro	No information available.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

S1922 TOLUENE FREE

Inhalation	May cause drowsiness or dizziness.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	May cause temporary eye irritation.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,840.0
Species	Rat
Notes (oral LD_{50})	OECD 401

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,920.0
Species	Rat
Notes (dermal LD_{50})	OECD 402

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	23.3
Species	Rat
Notes (inhalation LC_{50})	OECD 403
ATE inhalation (vapours mg/l)	23.3

Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Slightly irritating.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

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Reproductive toxicity - fertility	No information available.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure	May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways.

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
Ingestion	May be fatal if swallowed and enters airways.
Skin contact	Irritating to skin.
Eye contact	May cause temporary eye irritation.
Target organs	Eyes Respiratory system, lungs Skin

BUTANONE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	3,460.0
Species	Rat
Notes (oral LD_{50})	OECD 423
ATE oral (mg/kg)	3,460.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rabbit
Notes (dermal LD_{50})	OECD 402

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC_{50} > 7500 ppm, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

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Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Not sensitising. Buehler test - Guinea pig: Not sensitising. OECD 406

Germ cell mutagenicity

Genotoxicity - in vitro	This substance has no evidence of mutagenic properties. Bacterial reverse mutation test: Negative. Gene mutation: Negative. Chromosome aberration: Negative.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure	May cause drowsiness or dizziness. Central nervous system depression.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Prolonged contact may cause redness, irritation and dry skin. NOAEL 5014 ppm, Inhalation, Rat

Aspiration hazard

Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Inhalation	Vapour may irritate respiratory system/lungs. Vapours may cause drowsiness and dizziness.
Ingestion	May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritating to eyes.

ETHANOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	10,470.0
Species	Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	15,800.0

S1922 TOLUENE FREE

Species	Rat
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	20.0
Species	Rat
ATE inhalation (vapours mg/l)	20.0
Skin corrosion/irritation	
Animal data	Not irritating. Rabbit OECD 404
Serious eye damage/irritation	
Serious eye damage/irritation	Irritating. Rabbit OECD 405
Respiratory sensitisation	
Respiratory sensitisation	Not sensitising.
Skin sensitisation	
Skin sensitisation	Not sensitising. Mouse OECD 429
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
STOT - single exposure	Based on available data the classification criteria are not met.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Based on available data the classification criteria are not met.
Aspiration hazard	
Aspiration hazard	No information available.

Toxicokinetics	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) 2018/605 at levels of 0.1% or higher.
Inhalation	Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion	Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.
Skin contact	Prolonged contact may cause dryness of the skin.

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Eye contact	Causes serious eye irritation.

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,300.0
Species	Rat
Notes (oral LD_{50})	LD_{50} 4300 mg/kg, Oral, Rat
ATE oral (mg/kg)	4,300.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} 1100 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	11.0

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation	Irritating to eyes. Fully reversible within 7 days.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	Chromosome aberration: Negative.
Genotoxicity - in vivo	Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility	Fertility, One-generation study - , Inhalation, Vapour, Rat Negative.
Reproductive toxicity - development	Teratogenicity: - : , Vapour, Inhalation, Rat Negative.

Specific target organ toxicity - single exposure

STOT - single exposure	May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL (90d) 4.35 mg/l, Inhalation, Vapour, Rat

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Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Inhalation Harmful by inhalation. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.

Ingestion May be fatal if swallowed and enters airways. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

Skin contact Harmful in contact with skin. Irritating to skin. Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.

Eye contact Causes serious eye irritation.

SECTION 12: Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

CYCLOHEXANE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Ecotoxicity Toxic to aquatic life with long lasting effects.

BUTANONE

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

ETHANOL

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

XYLENE

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Very toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

CYCLOHEXANE

S1922 TOLUENE FREE

Toxicity	Very toxic to aquatic organisms.
Acute aquatic toxicity	
LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	EC_{50}, 96 hours: 4.53 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.9 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 3.4 mg/l, Selenastrum capricornutum
Chronic aquatic toxicity	
M factor (Chronic)	1

ACETONE

Toxicity	Not considered toxic to fish.
Acute aquatic toxicity	
Acute toxicity - fish	LC50, 96 hours: 5540 mg/l, Oncorhynchus mykiss (Rainbow trout) LC50, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 8800 mg/l, Daphnia magna
Acute toxicity - microorganisms	, : 1000 mg/l, Activated sludge
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 2.212 mg/l, Daphnia magna

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Acute aquatic toxicity	
Acute toxicity - fish	LC50, 96 hours: > 13.4 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 3 mg/l, Daphnia magna

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Toxicity	Toxic to aquatic life.
Acute aquatic toxicity	
Acute toxicity - fish	LC50, 96 hours: > 13.4 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 3 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL50, 72 hours: 10 - 30 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	

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Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.17 mg/l, Daphnia magna

BUTANONE

Toxicity	Not considered toxic to fish.
Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 308 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC50, 96 hour: 2029 mg/l, Pseudokirchneriella subcapitata OECD 201

ETHANOL

Toxicity	Not considered toxic to fish.
Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe) LC_{50}, 96 hour: 14200 mg/l, Pimephales promelas (Fat-head Minnow) LC_{50}, 96 hour: 13000 mg/l, Oncorhynchus mykiss (Rainbow trout) LC_{50}, 96 hour: 12000 - 16000 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 12340 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 48 hours: > 100 mg/l, Selenastrum capricornutum EC_{50}, 72 hour: 275 mg/l, (Chlorella vulgaris)
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 9 day: 9.6 mg/l, Daphnia magna

XYLENE

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hours: 2-11 (Roccus saxatilis); 13,5 (Lepomis macrochirus); 21,0 (Phimepales promelas) mg/l, LC_{50}, 96 hour: 2.6 mg/l, Oncorhynchus mykiss (Rainbow trout) OECD 203 Read-across data. NOEC, 56 day: > 1.3 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1-5 mg/l, Daphnia magna EC_{50}, 24 hour: 1 mg/l, Daphnia magna OECD 202 Read-across data.
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 3-5 (Selenastrum sp.) mg/l, Algae EC10, 72 hour: 1.9 mg/l, Pseudokirchneriella subcapitata Read-across data. ErC50, 72 hour: 4.36 mg/l, Pseudokirchneriella subcapitata Read-across data.

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Acute toxicity - microorganisms	EC_{50}, 3 hour: >157 mg/l, OECD 209 Read-across data.

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	EC10, 21 day: 1.91 mg/l, Daphnia magna OECD 211 Read-across data.

12.2. Persistence and degradability

Persistence and degradability The product is expected to be slowly biodegradable.

Ecological information on ingredients.

CYCLOHEXANE

Persistence and degradability	The substance is readily biodegradable.

ACETONE

Persistence and degradability	The product is readily biodegradable.
Biodegradation	Water - Degradation (%) 91: 28 days The substance is readily biodegradable.
Chemical oxygen demand	2.21 g O_2/g substance

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Persistence and degradability	The product is readily biodegradable.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	- Degradation (%) 98: 28 days

BUTANONE

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation 98%: 28 days OECD 301D

ETHANOL

Persistence and degradability	The product is readily biodegradable. The product is degraded completely by photochemical oxidation.
Biodegradation	- Degradation 84%: 20 day - Half-life : 1 - <10 days

XYLENE

S1922 TOLUENE FREE

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation 87.8%: 28 day OECD 301F

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

CYCLOHEXANE

Bioaccumulative potential BCF: 167,

Partition coefficient : 3.44

ACETONE

Bioaccumulative potential The product is not bioaccumulating. BCF: 3,

Partition coefficient : -0.24

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not known.

BUTANONE

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 0.3

ETHANOL

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: - 0.31

XYLENE

Bioaccumulative potential The product is not bioaccumulating. BCF: 5.4 - 25.9, Oncorhynchus mykiss (Rainbow trout)

Partition coefficient log Pow: 2.77 - 3.2

12.4. Mobility in soil

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

S1922 TOLUENE FREE

Ecological information on ingredients.

CYCLOHEXANE

Mobility No information available.

ACETONE

Mobility The product is soluble in water.

Adsorption/desorption coefficient Water - : 1.5 @ 20C°C

Henry's law constant 3311 Pa m3/mol @ 25°C

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Mobility The product is insoluble in water.

Surface tension 0.0192 mN/m @ 25°C

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Mobility The product is immiscible with water and will spread on the water surface.

BUTANONE

Mobility The product is soluble in water.

Adsorption/desorption coefficient Highly mobile. - Koc: 3.8 @ 20°C

ETHANOL

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is water-soluble and may spread in water systems.

XYLENE

Mobility The product is immiscible with water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

CYCLOHEXANE

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

ACETONE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

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HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

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

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

BUTANONE

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

ETHANOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

XYLENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects No information available.

Ecological information on ingredients.

CYCLOHEXANE

Other adverse effects Not determined.

ACETONE

Other adverse effects No information required.

HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS

Other adverse effects Not known.

HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS

Other adverse effects Not determined.

BUTANONE

Other adverse effects Not determined.

ETHANOL

S1922 TOLUENE FREE

Other adverse effects The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential. 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) 2018/605 at levels of 0.1% or higher.

XYLENE

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

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

14.1. UN number

UN No. (ADR/RID) 1133

UN No. (IMDG) 1133

UN No. (ICAO) 1133

UN No. (ADN) 1133

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ADHESIVES

Proper shipping name (IMDG) ADHESIVES (CONTAINS CYCLOHEXANE, HYDROCARBONS C7 - C9 N ALKANES, ISOALKANES, CYCLICS)

Proper shipping name (ICAO) ADHESIVES

Proper shipping name (ADN) ADHESIVES

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

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ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

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). 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 (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. This product may impact SEVESO storage regulations.
Restrictions (Annex XVII Regulation 1907/2006)	CAUTION - Chemical may be subject to REACH RESTRICTIONS - see Annex XVII. This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 69 Entry number: 57
Seveso Directive - Control of major accident hazards	P5c E1

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
cATpE: Converted Acute Toxicity Point Estimate.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
EC_{50}: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
EL50: Exposure Limit 50
hPa: Hectopascal
LL50: Lethal Loading fifty
OECD: Organisation for Economic Co-operation and Development
POW: Octanol-water partition coefficient
SCBA: self-contained breathing apparatus
STP: Sewage Treatment Plant
VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Flam. Liq. 2 - H225: On basis of test data. Skin Irrit. 2 - H315: Calculation method. Eye Irrit. 2 - H319: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 1 - H410: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

05/08/2022

S1922 TOLUENE FREE

Version number	1.000
SDS number	64179
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Signature	Lisa Bland