

# Toluene

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 REACH/UK REACH with its amendment Regulation (EU) 2015/830  
SDS Reference Number: PC2400882  
Issue date: 07/03/2025 Version: 1.0

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

#### 1.1. Product identifier

Product form	: Substance
Trade name	: Toluene
EC-No.	: 203-625-9
CAS-No.	: 108-88-3
REACH registration No.	: 01-2119471310-51-0043
Type of product	: Solvents
Formula	: C <sub>7</sub> H <sub>8</sub>
Synonyms	: Benzene, methyl-, Methacide, Methane, phenyl-, / Phenylmethane, Methylbenzene, Methylbenzol, Toluol
Other means of identification	: Toluene

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

##### Relevant identified uses

Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: Solvent
Use of the substance/mixture	: <ul style="list-style-type: none"> <li>Manufacture of Substance</li> <li>Distribution of Substance</li> <li>Use as an intermediate</li> <li>Use in roads and construction</li> <li>Use in Cleaning Agents</li> <li>Use as a fuel</li> <li>Use in Coatings</li> <li>Use in oilfield drillings and production operations</li> <li>Use in binders and release agents</li> <li>Use as a laboratory reagent</li> <li>Use in functional fluids</li> <li>Use in rubber production and processing</li> <li>Use in formulations</li> </ul>

##### Uses advised against

Restrictions on use	: Anything other than the above
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#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

GADIV PETROCHEMICAL INDUSTRIES LTD  
P.O. Box 4  
3100001 Haifa  
Israel  
T +972-4-8788020, F +972-4-8788018  
[Gadiv@bazan.co.il](mailto:Gadiv@bazan.co.il), [www.bazan.co.il](http://www.bazan.co.il)

#### 1.4. Emergency telephone number

Emergency number	: +972-4-8788512; Environment Incident Notification center 24-HOUR: *5799
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Reproductive toxicity, Category 2	H361d

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Specific target organ toxicity – Single exposure, Category 3, H336  
Narcosis  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Aspiration hazard, Category 1 H304  
Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H361d - Suspected of damaging the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P241 - Use explosion-proof ventilating, lighting, electrical equipment.  
P260 - Do not breathe fumes, gas, mist, spray, vapours.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use ABC-powder, BC-powder, alcohol resistant foam, carbon dioxide (CO<sub>2</sub>), dry extinguishing powder to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P501 - Dispose of contents and container to a hazardous or special waste collection point, comply with applicable local, national and international regulation..

## 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent  
Name : Toluene  
CAS-No. : 108-88-3  
EC-No. : 203-625-9

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
toluene	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	≤ 100	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 Asp. Tox. 1, H304 STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: Suspected of damaging fertility or the unborn child. Causes damage to organs.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire	: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing mist, spray, vapours.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

Methods for cleaning up : Recover small spills with a suitable absorbent, like diatomaceous earth. Recover large spills by pumping (use an explosion proof or hand pump). Contain large spills to maximize product recovery or disposal. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fume, gas, mist, spray, vapours. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Wash hands thoroughly after handling.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating, Equipment equipment.  
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, sparks, Sources of ignition. Keep in fireproof place. Keep container tightly closed.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Natural rubber. Certain plastics, rubbers and coatings. Synthetic rubber. Sources of ignition. Direct sunlight. Heat sources.  
Storage temperature : Ambient  
Packages and containers: : Stainless steel. Storage in steel recommended. Polyethylene.

#### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure and biological limit values

toluene (108-88-3)	
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Toluene
WEL TWA (OEL TWA)	191 mg/m <sup>3</sup> 50 ppm
WEL STEL (OEL STEL)	384 mg/m <sup>3</sup> 100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
WEL chemical category	Potential for cutaneous absorption
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

##### DNEL and PNEC

Toluene (108-88-3)	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, inhalation	384 mg/m <sup>3</sup>
Acute - local effects, inhalation	384 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	384 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	192 mg/m <sup>3</sup>
Long-term - local effects, inhalation	192 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, inhalation	226 mg/m <sup>3</sup>
Acute - local effects, inhalation	226 mg/m <sup>3</sup>
Long-term - systemic effects, oral	8.13 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	56.5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	226 mg/kg bodyweight/day
Long-term - local effects, inhalation	56.5 mg/m <sup>3</sup>

#### 8.2. Exposure controls

##### Personal protection equipment

###### Personal protective equipment:

Avoid all unnecessary exposure.

###### Personal protective equipment symbol(s):



##### Eye and face protection

###### Eye protection:

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Use eye protection according to EN 166, designed to protect against liquid splashes. Chemical goggles or safety glasses

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### Skin protection

#### Skin and body protection:

In case of repeated or prolonged exposure use Chemical resistant protective apron/clothing (tested to EN 14605 or equivalent); Chemical resistant gloves (according to European standard EN 374 or equivalent). When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection must be worn. Protective clothing (EN 14605 or EN 13034)

#### Hand protection:

In case of repeated or prolonged contact wear gloves. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils. Neoprene gloves are recommended with breakthrough time of approx. 25 minutes according to ISO 374-1 (0.1 mm thickness); changing gloves after 20 minutes is recommended. The following glove material provides a break through time of  $\geq 8$  hours: nitrile rubber (0.35 mm), butyl rubber (0.5 mm), fluorinated rubber (0.4 mm).

### Respiratory protection

#### Respiratory protection:

Wear a mask. If this material is handled at elevated temperature or under mist forming conditions, approved respiratory protection equipment should be used. In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145). Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. [In case of inadequate ventilation] wear respiratory protection.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid direct discharge into drains. Collect all waste in suitable and labelled containers and dispose according to local legislation. Relevant water authorities should be notified of any large spillage to water course or drain.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Clear.
Odour	: Benzene-like.
Odour threshold	: Not available
Melting point	: -95 °C Atm. press.: 1013 hPa Decomposition: 'no' Sublimation: 'no'
Freezing point	: Not available
Boiling point	: 110.6 °C Atm. press.: 1013 hPa Decomposition: 'no'
Flammability	: Highly flammable liquid and vapour.
Lower explosion limit	: 8.3 vol %
Upper explosion limit	: 1.2 vol %
Flash point	: 4.4 °C Atm. press.: 1013 hPa
Auto-ignition temperature	: 480 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 0.4 – 0.7 mm <sup>2</sup> /s (at 20 deg C)
Viscosity, dynamic	: 0.56 mPa·s Temp.: 'other:' Parameter: 'dynamic viscosity (in mPa s)'
Solubility	: Water: 1.88 g/l at 23.5°C
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 3.6 – 4
Vapour pressure	: 19 – 50 kPa at 25 deg C
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.866 g/cm <sup>3</sup> at 20°C
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agents.

#### 10.6. Hazardous decomposition products

None under normal conditions. Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

### SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met

#### Toluene (108-88-3)

LD50 oral rat	5580 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77
LC50 Inhalation - Rat	> 23.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

#### toluene (108-88-3)

LD50 oral rat	2600 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	12000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	12.5 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met

#### toluene (108-88-3)

IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging the unborn child.

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STOT-single exposure : May cause drowsiness or dizziness.

### toluene (108-88-3)

STOT-single exposure : May cause drowsiness or dizziness.

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

### Toluene (108-88-3)

LOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
LOAEC (inhalation, rat, vapour, 90 days)	16.6 mg/l air Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

### toluene (108-88-3)

LOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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

### Toluene (108-88-3)

Viscosity, kinematic : 0.4 – 0.7 mm<sup>2</sup>/s (at 20 deg C)

## 11.2. Information on other hazards

### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : No additional information available

### Other information

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

### Toluene (108-88-3)

LC50 - Fish [1]	5.5 mg/l Test organisms (species): Oncorhynchus kisutch
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'

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toluene (108-88-3)	
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'

### 12.2. Persistence and degradability

Toluene (108-88-3)	
Persistence and degradability	May cause long-term adverse effects in the environment.

toluene (108-88-3)	
Persistence and degradability	Rapidly degradable

### 12.3. Bioaccumulative potential

Toluene (108-88-3)	
Partition coefficient n-octanol/water (Log Pow)	3.6 – 4
Bioaccumulative potential	Not established.

toluene (108-88-3)	
Partition coefficient n-octanol/water (Log Pow)	2.73 (at 20 °C (at pH 7))

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : No data available.

### 12.7. Other adverse effects

Toluene (108-88-3)	
Other information	Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, national regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecological waste information : Avoid release to the environment. Hazardous waste due to toxicity.






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### SECTION 14: Transport information

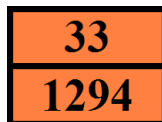
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1294	UN 1294	UN 1294	UN 1294	UN 1294
<b>14.2. UN proper shipping name</b>				
TOLUENE	TOLUENE	Toluene	TOLUENE	TOLUENE
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-D	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: F1
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	:



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

#### Transport by sea

Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1

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Stowage category (IMDG) : B  
Flash point (IMDG) : 7°C c.c.  
Properties and observations (IMDG) : Colourless liquid with a benzene-like odour. Flashpoint: 7°C c.c. Explosive limits: 1.27% to 7%. Immiscible with water.

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Toluene
3(b)	Toluene
3(c)	Toluene
48.	Toluene

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

# Toluene

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 REACH/UK REACH with its amendment Regulation (EU) 2015/830

### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

Organic solvent : Yes

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Sources of Key data : ECHA (European Chemicals Agency). CLP Inventory. Supplier information. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens).

Other information : None.

### Full text of H- and EUH-statements:

Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.