

according to Commission Regulation (EU) 2020/878 as amended

**BALTECH P6407 TOLUEN MIXTURE**

Creation date	13th March 2017	Version	4.0
Revision date	06th February 2024		

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

**1.1. Product identifier**  
Substance / mixture BALTECH P6407 TOLUEN MIXTURE  
mixture  
UFI CPTV-F0W8-300G-F2M6

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Technical liquid, for degreasing and cleaning of metal objects, special diluent of adhesives.

**Main intended use**

PC-PNT-7 Paint removers, thinners and related auxiliaries

**Mixture uses advised against**

This product (customs nomenclature 2707 20 00) must not be used for engine drives. For spray application, the product is intended for professional and industrial use only.  
Exposure scenario is attached to the Safety Data Sheet.

**1.3. Details of the supplier of the safety data sheet****Distributor**

Name or trade name	BARVY A LAKY TELURIA,s.r.o.
Address	č.p.1, Skrchov, 679 61 Czech Republic
Identification number (CRN)	43420371
VAT Reg No	CZ43420371
Phone	+420 516 474 211
E-mail	info@teluria.cz
Web address	http://www.bal.cz

**Competent person responsible for the safety data sheet**

Name	BARVY A LAKY TELURIA,s.r.o.
E-mail	info@teluria.cz

**1.4. Emergency telephone number**

European emergency number: 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 2, H225  
Asp. Tox. 1, H304  
Skin Irrit. 2, H315  
STOT SE 3, H336  
Repr. 2, H361fd  
STOT RE 2, H373  
Aquatic Chronic 3, H412

**Most serious adverse physico-chemical effects**

Highly flammable liquid and vapour.

**Most serious adverse effects on human health and the environment**

May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

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### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Danger

#### Hazardous substances

toluene

Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane

#### Hazard statements

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.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

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 vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

#### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	85-95	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373	2, 3
EC: 926-605-8 Registration number: 01-2119486291-36	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	10-15	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Repr. 2, H361f Aquatic Chronic 2, H411 EUH066	1, 4

##### Notes

- 1 Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- 2 A substance for which exposure limits are set.
- 3 The use of the substance is restricted by Annex XVII of REACH Regulation
- 4 Fulfilled Note P

Full text of all classifications and hazard statements is given in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Do not perform artificial respiration without self-protection (e.g. a mask). Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

##### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

##### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

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### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

### If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

##### If inhaled

Cough, headache. May cause drowsiness or dizziness.

##### If on skin

Causes skin irritation.

##### If in eyes

Not expected.

##### If swallowed

Irritation, nausea.

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

Symptomatic treatment. Pay attention: contains organic solvents. Ingestion or vomiting may occur due to aspiration into the lungs and then a rapid absorption and damage to other organs. In case of suspected break-liquid ingredients into the lungs get medical help immediately. Get medical supervision for at least 48 hours after ingestion of liquid. If you see a doctor, take this safety data sheet with you.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### SECTION 6: Accidental release measures

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

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

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### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### 7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

#### 7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

#### 7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

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

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).

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Storage class	3A - Flammable liquids (flash point below 55 °C)
Storage temperature	min 5 °C, max 25 °C

**The specific requirements or rules relating to the substance/mixture**

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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

The conclusions of the chemical safety assessment of the compounds of toluene mixture are incorporated in the relevant sections of the safety data sheet. Specific requirements for the safe industrial and professional use of the petrol cleaner in terms of worker and environmental protection, processed based on the information from the exposure scenarios of the compounds of the mixture for the specific use are listed in the annex to the safety data sheet.

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**European Union**
**Commission Directive 2006/15/EC**

Substance name (component)	Type	Value	Note
toluene (CAS: 108-88-3)	OEL 8 hours	192 mg/m <sup>3</sup>	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	384 mg/m <sup>3</sup>	
	OEL 15 minutes	100 ppm	

**DNEL**

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5036 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Dermal	13964 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	1131 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Dermal	1377 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	1301 mg/kg bw/day	Chronic effects systemic		

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toluene					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	192 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Inhalation	384 mg/m <sup>3</sup>	Acute effects systemic		
Workers	Inhalation	192 mg/m <sup>3</sup>	Chronic effects local		
Workers	Inhalation	384 mg/m <sup>3</sup>	Acute effects local		
Workers	Dermal	384 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	56.5 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Inhalation	226 mg/m <sup>3</sup>	Acute effects systemic		
Consumers	Inhalation	56.5 mg/m <sup>3</sup>	Acute effects systemic		
Consumers	Inhalation	226 mg/m <sup>3</sup>	Acute effects local		
Consumers	Dermal	226 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	8.13 mg/kg bw/day	Chronic effects systemic		

**PNEC**

toluene			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.68 mg/l		
Marine water	0.68 mg/l		
Water (intermittent release)	0.68 mg/l		
Microorganisms in sewage treatment	13.61 mg/l		
Freshwater sediment	16.39 mg/kg of dry substance of sediment		
Sea sediments	16.39 mg/kg of dry substance of sediment		
Soil (agricultural)	2.89 mg/kg of dry substance of soil		

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### 8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

#### Eye/face protection

Protective goggles (closed eye protection) resistant to organic solvent or face shield.

#### Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream.

Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – PVA and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

#### Respiratory protection

Don't breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

#### More information

In the Czech Republic: The monitoring procedure for the content of substances in workplace air and the specification of protective equipment is determined by the worker responsible for occupational safety and health protection of workers. Legal and natural persons doing business have the obligation to measure and control the values of concentrations of substances in the atmosphere of workplaces and to classify workplaces according to the categorization of work.

Exposure scenario is attached to the Safety Data Sheet.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit	data not available
Flash point	4-6 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available

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Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0.845 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

### 9.2. Other information

Evaporation rate	data not available
Oxidising properties	The product has no oxidizing properties.
Content of organic solvents (VOC)	1.00 kg/kg
Total organic carbon (TOC)	0.91 kg/kg

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is highly flammable.

### 10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

### 10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

In terms of health effects, the mixture has not been tested as a whole; the data are adopted from Safety Data Sheets of raw material suppliers. Data that are not specified are currently not available.

#### Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	>5000 mg/kg		Rat ( <i>Rattus norvegicus</i> )	

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### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC <sub>50</sub>	>5.2 mg/l	4 hours	Rat ( <i>Rattus norvegicus</i> )	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rabbit	

### toluene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	5000 mg/kg		Rat ( <i>Rattus norvegicus</i> )	
Dermal	LD <sub>50</sub>	14000 mg/kg		Rabbit	
Inhalation (gases)	LC <sub>50</sub>	30080 mg/m <sup>3</sup>	4 hours	Rat ( <i>Rattus norvegicus</i> )	
Inhalation (gases)	LC <sub>50</sub>	15040 mg/m <sup>3</sup>	4 hours	Mouse	

#### Skin corrosion/irritation

Causes skin irritation. Data for the components of the mixture are not available.

#### Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

#### Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

#### Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

#### Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

#### Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child. Data for the components of the mixture are not available.

#### Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness. Data for the components of the mixture are not available.

#### Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure. Data for the components of the mixture are not available.

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### Aspiration hazard

May be fatal if swallowed and enters airways. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.

### More information

Human experience:

Toluene

The primary entry of toluene into the body is inhalation, in this case it is absorbed 50% of toluene. It can also be absorbed by the digestive tract or skin contact. Primarily toluene affects the central nervous system, it has a narcotic effect. It causes respiratory irritation, causes cardiac arrhythmia and damages the liver and kidneys. Acute exposure causes headaches, dizziness, fatigue, loss of coordination and color vision, vomiting and lethargy. Chronic exposure causes fatigue, loss of concentration and memory, irritability, persistent headaches. In most cases the symptoms (post exposure) are only temporary. It has a degreasing effect in contact with skin, can pass into the secondary inflammation. After a prolonged exposure there is a risk of dermatitis. Toluene can cross the placenta to the fetus, and may also be present in breast milk.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

The complete mixture has not been tested. The classification is based on the calculation method. Information on toxic effects are based on the effects of the substances, the data are taken from the safety data sheets of raw materials. The mixture is classified as dangerous for the environment. Harmful to aquatic life with long lasting effects. The mixture is a source of volatile organic emissions. Avoid release to the environment.

#### Acute toxicity

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane				
Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	1-10 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC <sub>50</sub>	1-10 mg/l		Daphnia (Daphnia magna)	
EC <sub>50</sub>	1-10 mg/l	72 hours	Algae (Selenastrum capricornutum)	

toluene				
Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	10 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC <sub>50</sub>	60 mg/l	48 hours	Daphnia (Daphnia magna)	
EC <sub>50</sub>	120 mg/l	72 hours	Algae (Scenedesmus subspicatus)	
Log Pow	2.73			

### 12.2. Persistence and degradability

The mixture is biodegradable.

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### 12.3. Bioaccumulative potential

Data for the mixture are not available.

toluene					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	16-90				

### 12.4. Mobility in soil

The mixture is a liquid insoluble in water, in case of leakage into environment, it may be dispersed over large distances and penetrate into underground water. It contains components with the potential of mobility in soil. When released into the soil may occur due to contamination of groundwater.

toluene			
Parameter	Value	Environment	Temperature
Koc	37-178		

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Volatile organic substances contained in the mixture have the potential to damage ozone layer.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

07 03 04\* other organic solvents, washing liquids and mother liquors

#### Packaging waste type code

15 01 10\* packaging containing residues of or contaminated by hazardous substances

(\* - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1993

according to Commission Regulation (EU) 2020/878 as amended

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Creation date	13th March 2017	Version	4.0
Revision date	06th February 2024		

**14.2. UN proper shipping name**

FLAMMABLE LIQUID, N.O.S. (toluene and hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane)

**14.3. Transport hazard class(es)**

3 Flammable liquids

**14.4. Packing group**

II

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user**

Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls.

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

not relevant

**Additional information**

Hazard identification No.



UN number



Classification code

F1

Safety signs

3



Tunnel restriction code

(D/E)

**Air transport - ICAO/IATA**

Packaging instructions passenger

355

Cargo packaging instructions

366

**Marine transport - IMDG**

EmS (emergency plan)

F-E, S-E

MFAG

310

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

toluene

Restriction	Conditions of restriction
48	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

### 15.2. Chemical safety assessment

The chemical safety assessment has been carried out on all of substances of the mixture. The relevant exposure scenarios for the components are incorporated in the annex to the safety data sheet.

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

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.
H361f	Suspected of damaging fertility.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Guidelines for safe handling used in the safety data sheet

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 vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

### A list of additional standard phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.
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### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

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

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service

according to Commission Regulation (EU) 2020/878 as amended

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CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquid
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

This product (customs nomenclature 2707 20 00) must not be used for engine drives. For spray application, the product is intended for professional and industrial use only.

### Information about data sources used to compile the Safety Data Sheet

according to Commission Regulation (EU) 2020/878 as amended

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Commission Regulation (EU) 2020/878 of 18 June 2020. REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 15 December 2021. Changes were made in sections 1, 2, 11, 15 and 16.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

# Supplement to the Safety Data Sheet for P6407 TOLUENE MIXTURE

## Instructions for safe use of the product

<b>Industrial use for cleaning and degreasing</b>	
This applies to the use of the product as an ingredient in cleaning and degreasing agents, including transfer of the product from warehouses, charging/discharging from/to containers and equipment, exposure during mixing and dilution at the preparation stage of use, application processes (including spraying, brushing, dipping, mechanical and hand wiping), cleaning and maintenance of the relevant equipment, laboratory activities.	
Descriptors of the partial activities involved	PROC2, PROC3, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15, PROC19; ERC4
General conditions for the validity of the instructions	The following instructions apply to work with the product in undiluted form, at a temperature not exceeding the ambient temperature by more than 20°C, 8 hours a day, inside. Basic principles of good work hygiene apply at the workplace (see section 7 of the safety data sheet).
Basic requirements for the technical conditions of use and measures to reduce risks	If there is a risk of atomisation and exposure of eyes, use safety goggles or a shield. If there is a risk of hand contamination, use safety gloves (see sec. 8.2 of the SDS) If NPK or PEL values are exceeded, use respiratory protection (see sec. 8 of the SDS). Unless otherwise specified hereinafter, provide good level of basic ventilation at the workplace (air exchange at least 3–5 times an hour) or better. The workplace must meet the requirements for work with highly flammable liquids capable of producing explosive vapor-air mixtures. The workplace is protected from accidental leakage of the product in water or soil.
<b>Specific requirements for the safe use in terms of protection of workers</b>	
Partial activities	Other requirements for the technical conditions of use and measures to reduce risks
Use of the substance in closed continuous and batch processes (PROC2, PROC3)	No further measures required.
Use of the substance when mixing and diluting in open equipment (PROC5)	No further measures required.
Applications by industrial spraying/misting (PROC7). (any of the mentioned methods can be used)	Robotic applications in a closed chamber equipped with local exhaust.
	Machine or manual applications in a closed chamber or other enclosed exhausted area.
	Machine or manual application in intensively ventilated area (10 to 15 air exchanges per hour) with the use of a mask with a protective filter with 90% of efficient capture of emissions (see section 8.2 of the safety data sheet).
Transfer of product, pouring in open system with a possibility of exposure (PROC8a) and in closed system with limited exposure (PROC8b).	No further measures required.
Roller application or brushing, as well as cleaning of the tools (PROC10)	No further measures required.
Application by dipping or pouring (PROC13)	No further measures required.
Hand-wiping, hand-mixing and hand-application (PROC19)	Use safety gloves resistant to chemicals (see sec. 8.2 of the SDS).
Laboratory activities (PROC15)	No further measures required.
Cleaning and maintenance of equipment.	Empty the equipment before its opening or cleaning.
Product waste and product-contaminated waste	Wear protective gloves if there is a risk of contact with waste. Dispose of wastes in sealed containers stored in well-ventilated areas or outdoors. Waste to ensure against leakage into water and soil.
<b>Specific requirements in terms of environmental protection:</b>	
Air protection requirements	If required, reduce product emissions in the air as per requirements of air protection regulations by retention or incineration.
Water protection requirements	Water contaminated with the product before release in surface or ground water is to be treated using physical or biological methods to achieve residual level of contamination as specified by water protection regulations.
Waste management requirements	As appropriate, waste is to be used, regenerated or disposed of as dangerous waste by incineration.

<b>Professional use for cleaning and degreasing</b>	
It covers the use of the product as a compound in cleaning and degreasing agents, including transfer of product from the warehouse, charging/discharging from/to containers and facility, exposure during mixing and dilution in the preparatory phase of use, application processes (including spraying, brushing, dipping, mechanical and manual wiping), and cleaning and maintenance of the respective facility.	
Descriptors of the partial activities involved	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19; ERC8a (indoor use) ERC8d (outdoor use)
General conditions for the validity of the instructions	Unless specified otherwise, the instructions cover work with undiluted product at normal temperature $\pm 20$ °C, 8 hours per day indoor and outdoor. The basic principles of good hygiene of the work are applied in the workplace (see section 7 of the safety data sheet).
Basic requirements for the technical conditions of use and measures to reduce risks	If there is a risk of atomisation and exposure of eyes, use safety goggles or a shield. If there is a risk of hand contamination, use safety gloves (see sec. 8.2 of the SDS) Unless otherwise specified hereinafter, provide good level of basic ventilation at the workplace (air exchange 3-5 times an hour) or better. The requirement is met when the area is ventilated with open windows and doors. If NPK or PEL values are exceeded, use respiratory protection (see sec. 8 of the SDS).
<b>Specific requirements for safe use in terms of worker protection:</b>	
Partial activities	Further requirements for the technical conditions of use and measures to reduce risks
Filling/preparation of the equipment from barrels and containers by means of dedicated facility indoor.	No further measures required.
Automated procedures with the use of closed or partially closed facility.	No further measures required.
Semi-automatic procedures (e.g., semi-automatic application of preparations to maintain the floors)	No further measures required.
Filling of the equipment from barrels and containers by means of dedicated facility outdoor.	Carry out the application outdoor not more than 4 hours a day. In the rest of the working time, a worker should not be exposed to the effects of the product.
Mixing or blending in open facilities.	Indoor: Without further requirements. Outdoor: Carry out the application outdoor not more than 4 hours a day. In the rest of the working time, a worker should not be exposed to the effects of the product.
Manual surface cleaning, dipping, coating.	No further measures required.
Cleaning with low-pressure cleaning equipment. Application with roller, brush, without spraying techniques.	Use respiratory protection conforming to EN 140 with A type filter or better.
Cleaning with high-pressure cleaning equipment. Spraying techniques. Indoor or outdoor.	Use respiratory protection conforming to EN 140 with A type filter or better.
Local manual application with hand sprayers, by dipping, application with a roller or brush.	Use local exhaust in the places of emission sources or use respiratory protection conforming to EN 140 with A type filter or better.
Cleaning agent application outdoor in closed system.	No further measures required.
Cleaning of medical devices.	Use local exhaust in the places of emissions release.
Cleaning and maintenance of equipment.	Empty the equipment before its opening or cleaning.
Laboratory activities (PROC15)	No further measures required.
Product waste and product-contaminated waste	Wear protective gloves if there is a risk of contact with waste. Dispose of wastes in sealed containers stored in well-ventilated areas or outdoors. Waste to ensure against leakage into water and soil.
<b>Specific requirements in terms of environmental protection:</b>	
Air protection requirements	When working outside, no other measures to reduce emissions are required. When working inside, reduce product emissions in the air depending on the activity being carried out and on the yearly amount of volatile organic compounds used according to requirements of air protection regulations.
Water protection requirements	Water contaminated with the product before release in surface or ground water is to be treated using physical or biological methods to achieve residual level of contamination as specified by water protection regulations.
Waste management requirements	As appropriate, waste is to be used, regenerated or disposed of as dangerous waste by incineration.