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

BALTECH P6406 TOLUENE

Creation date	19th February 2015		
Revision date	12th May 2023	Version	4.1

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

1.1. Product identifier — BALTECH P6406 TOLUENE

Substance / mixture	substance
Chemical name	toluene
CAS number	108-88-3
Index number	601-021-00-3
EC (EINECS) number	203-625-9
Registration number	01-2119471310-51

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

Substance's intended use

Special solvent for chlorinated rubbers and rubber adhesives. For professional use only.

Substance uses advised against

Note 48 in section 15.

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 substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Flam. Liq. 2, H225
Asp. Tox. 1, H304
Skin Irrit. 2, H315
STOT SE 3, H336
Repr. 2, H361d
STOT RE 2, H373

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

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 the unborn child. May cause damage to organs through prolonged or repeated exposure.

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2.2. Label elements

Hazard pictogram

Signal word

Danger

Dangerous substance

toluene
(Index: 601-021-00-3; CAS: 108-88-3)

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.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component			
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	>99	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373	1, 2

Notes

1 A substance for which exposure limits are set.

2 The use of the substance is restricted by Annex XVII of REACH Regulation

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

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

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! 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/shower.

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

DO NOT INDUCE VOMITING! 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). Provide 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.

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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.

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

Provide sufficient ventilation. The substance is flammable. Remove all ignition sources. Follow the instructions in the Sections 7 and 8.

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.

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.

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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. 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).

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)

Using of toluene as an ingredient in cleaning and degreasing agents and as a diluent of adhesives and coatings, 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. Conditions of safe use of the registered component specified in exposure scenarios to SDSs of the component is incorporated to this Safety Data Sheet and its Annex.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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BALTECH P6406 TOLUENE

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

Substance name (component)	Type	Value	Note
toluene (CAS: 108-88-3)	OEL 8 hours	192 mg/m³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	384 mg/m³	
	OEL 15 minutes	100 ppm	

United Kingdom **EH40/2005 Workplace exposure limits (Fourth Edition 2020)**

Substance name (component)	Type	Value	Note
toluene (CAS: 108-88-3)	WEL 8h	191 mg/m³	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 8h	50 ppm	
	WEL 15min	384 mg/m³	
	WEL 15min	100 ppm	

DNEL

toluene

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	192 mg/m³	Chronic effects systemic		
Workers	Inhalation	384 mg/m³	Acute effects systemic		
Workers	Inhalation	192 mg/m³	Chronic effects local		
Workers	Inhalation	384 mg/m³	Acute effects local		
Workers	Dermal	384 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	56.5 mg/m³	Chronic effects systemic		

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toluene

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Inhalation	226 mg/m³	Acute effects systemic		
Consumers	Inhalation	56.5 mg/m³	Acute effects systemic		
Consumers	Inhalation	226 mg/m³	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		

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 or face shield (based on the nature of the work performed).

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.

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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

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
Odour threshold	7,5 mg/m3
Melting point/freezing point	-95 °C
Boiling point or initial boiling point and boiling range	110.6 °C
Flammability	data not available
Lower and upper explosion limit	
bottom	1.3 %
upper	7.0 %
Flash point	4-6 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	<20.5 mm²/s at 40 °C
Viscosity	0.671 mPa.s
Solubility in water	587 mg/l / 25 °C
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	30.9 hPa at 21.1 °C
Density and/or relative density	
Density	0.865 g/cm³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Oxidising properties	The product has no oxidizing properties.
Ignition temperature	480 °C
Vapour density	3,2
Content of organic solvents (VOC)	1.0 kg/kg
Total organic carbon (TOC)	0.92 kg/kg

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

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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

No toxicological data is available for the substance.

Acute toxicity

Based on available data the classification criteria are not met.

toluene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD_{50}	14000 mg/kg		Rabbit	
Inhalation (gases)	LC_{50}	30080 mg/m³	4 hours	Rat (Rattus norvegicus)	
Inhalation (gases)	LC_{50}	15040 mg/m³	4 hours	Mouse	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Suspected of damaging the unborn child.

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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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 substance does not have 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

Acute toxicity

toluene

Parameter	Value	Exposure time	Species	Environment
LC_{50}	10 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC_{50}	60 mg/l	48 hours	Daphnia (Daphnia magna)	
EC_{50}	120 mg/l	72 hours	Algae (Scenedesmus subspicatus)	
Log Pow	2.73			

12.2. Persistence and degradability

Readily biodegradable. Dissipation half life: in soil aerobically 90 days; in soil anaerobically 900 days; in surface waters aerobically 30 days

12.3. Bioaccumulative potential

toluene

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

Bioaccumulation: low to medium.

12.4. Mobility in soil

toluene

Parameter	Value	Environment	Temperature
Koc	37-178		

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.

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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

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7. Other adverse effects

not available

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 01 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 1294

14.2. UN proper shipping name

TOLUENE

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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Additional information

Hazard identification No.	**33**
UN number	**1294**
Classification code	F1
Safety signs	3

Air transport - ICAO/IATA

Packaging instructions passenger	353
Cargo packaging instructions	364

Marine transport - IMDG

EmS (emergency plan)	F-E, S-D

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).

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 relevant exposure scenario is 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.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

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
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_{50}	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_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	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

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VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
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

Note 48 in section 15.

Information about data sources used to compile the Safety Data Sheet

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

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.

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Supplement to the Safety Data Sheet for P6406 TOLUENE

Instructions for safe use of the product

Industrial use for cleaning and degreasing and as a diluent of adhesives and coatings	
This applies to the use of the product as an ingredient in cleaning and degreasing agents and as a diluent of adhesives and coatings, 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.
Specific requirements for the safe use in terms of protection of workers	
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 (PROC1, 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.
Specific requirements in terms of environmental protection:	
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.

Professional use for cleaning and degreasing and as a diluent of adhesives and coatings	
It covers the use of the product as an ingredient in cleaning and degreasing agents and as a diluent of adhesives and coatings, 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 ± 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. 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). The workplace is protected from accidental leakage of the product in water or soil.
Specific requirements for safe use in terms of worker protection:	
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.
Specific requirements in terms of environmental protection:	
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.