

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier: C2 500, P9 0035, P9 104, P9 0535 - Toluen 1.1

Toluene

CAS: 108-88-3 EC: 203-625-9 Index: 601-021-00-3

REACH: 01-2119471310-51-XXXX

Other means of identification:

Non-applicable

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

Relevant uses: Industrial formulation

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

> ECP d.o.o. Brnčičeva 45 Ljubljana - Slovenia office@ecp.eu www.ecp.si

**Emergency telephone number: 112** 

### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture:

### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Asp. Tox. 1: Aspiration hazard, Category 1, H304 Flam. Liq. 2: Flammable liquids, Category 2, H225 Repr. 2: Reproductive toxicity, Category 2, H361d

Skin Irrit. 2: Skin irritation, Category 2, H315

STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2, H373 STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

Label elements:

#### CLP Regulation (EC) No 1272/2008:







#### **Hazard statements:**

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Repr. 2: H361d - Suspected of damaging the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H336 - May cause drowsiness or dizziness.

#### **Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240: Ground and bond container and receiving equipment.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+P352: IF ON SKIN: Wash with plenty of water.

P314: Get medical advice/attention if you feel unwell.

P331: Do NOT induce vomiting.

P403+P235: Store in a well-ventilated place. Keep cool.

- CONTINUED ON NEXT PAGE -Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1) Page 1/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 2: HAZARDS IDENTIFICATION (continued)

#### 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Chemical description: Organic substance

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification			
CAS:	108-88-3	Toluene		ATP CLP00		
EC: Index: REACH	203-625-9 601-021-00-3 I: 01-2119471310-51- XXXX		Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger	(!) (A) (A)	95 - <100 %	

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### 3.2 Mixture:

Non-applicable

### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Suitable extinguishing media:

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1) Page 2/12

- CONTINUED ON NEXT PAGE -



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 5: FIREFIGHTING MEASURES (continued)

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

#### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 7: HANDLING AND STORAGE (continued)

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

	Identification	Occupational exposure limits		
Toluene		IOELV (8h)	50 ppm	192 mg/m <sup>3</sup>
CAS: 108-88-3	EC: 203-625-9	IOELV (STEL)	100 ppm	384 mg/m <sup>3</sup>

### **DNEL (Workers):**

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Toluene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-88-3	Dermal	Non-applicable	Non-applicable	384 mg/kg	Non-applicable
EC: 203-625-9	Inhalation	384 mg/m <sup>3</sup>	384 mg/m <sup>3</sup>	192 mg/m <sup>3</sup>	192 mg/m <sup>3</sup>

### **DNEL (General population):**

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Toluene	Oral	Non-applicable	Non-applicable	8,13 mg/kg	Non-applicable
CAS: 108-88-3	Dermal	Non-applicable	Non-applicable	226 mg/kg	Non-applicable
EC: 203-625-9	Inhalation	226 mg/m <sup>3</sup>	226 mg/m <sup>3</sup>	56,5 mg/m <sup>3</sup>	56,5 mg/m <sup>3</sup>

#### PNEC:

Identification				
Toluene	STP	13,61 mg/L	Fresh water	0,68 mg/L
CAS: 108-88-3	Soil	2,89 mg/kg	Marine water	0,68 mg/L
EC: 203-625-9	Intermittent	0,68 mg/L	Sediment (Fresh water)	16,39 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	16,39 mg/kg

#### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

#### D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Face shield	CATII	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

### E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
•	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>→</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1) Page 5/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

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

For complete information see the product datasheet.

**Appearance:** 

Physical state at 20 °C: Liquid

Appearance: Not available
Colour: Colourless
Odour: Characteristic
Odour threshold: Non-applicable \*

Volatility:

Boiling point at atmospheric pressure: 111 °C Vapour pressure at 20 °C: 2980 Pa

Vapour pressure at 50 °C: 12309,37 Pa (12,31 kPa)

Evaporation rate at 20 °C: Non-applicable \*

**Product description:** 

869,3 kg/m<sup>3</sup> Density at 20 °C: 0,869 Relative density at 20 °C: Dynamic viscosity at 20 °C: 0,6 cP Kinematic viscosity at 20 °C: 0,69 mm<sup>2</sup>/s Kinematic viscosity at 40 °C: Non-applicable \* Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \*

Partition coefficient n-octanol/water 20 °C:

Solubility in water at 20 °C:

Non-applicable \*

Non-applicable \*

Decomposition temperature:

Non-applicable \*

Melting point/freezing point: -95 °C

Flammability:

Flash Point: 4 °C

Flammability (solid, gas): Non-applicable \*

Autoignition temperature: 536 °C
Lower flammability limit: 1,2 % Volume
Upper flammability limit: 7,1 % Volume

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Non-applicable \*

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Non-applicable \*

Non-applicable \*

Non-applicable \*

Non-applicable \*

components:

Other safety characteristics:

 ${}^*\mathrm{Not}$  relevant due to the nature of the product, not providing information property of its hazards.



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Surface tension at 20 °C:

Refraction index:

Non-applicable \*

Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

#### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

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

### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

    IARC: Toluene (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Suspected of damaging the unborn child.
- E- Sensitizing effects:

- CONTINUED ON NEXT PAGE 
Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1) Page 7/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

#### Other information:

Non-applicable

#### **Product-specific toxicological information:**

Acute toxicity		Genus
LD50 oral	5580 mg/kg	Rat
LD50 dermal	12124 mg/kg	Rat
LC50 inhalation	28,1 mg/L (4 h)	Rat

#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Toluene	LD50 oral	5580 mg/kg	Rat
CAS: 108-88-3	LD50 dermal	12124 mg/kg	Rat
EC: 203-625-9	LC50 inhalation	28,1 mg/L (4 h)	Rat

#### 11.2 Information on other hazards:

#### **Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

### Other information

Non-applicable

### SECTION 12: ECOLOGICAL INFORMATION

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### 12.1 Toxicity:

### **Product-specific aquatic toxicity:**

Acute toxicity		Species	Genus	
LC50	5,5 mg/L (96 h)	Non-applicable	Fish	
EC50	3,78 mg/L (48 h)	Non-applicable	Crustacean	

#### Substance-specific aquatic toxicity:

#### Acute toxicity:

Identification	Concentration		Species	Genus	
Toluene	LC50	5,5 mg/L (96 h)	Oncorhynchus kisutch	Fish	
CAS: 108-88-3	EC50	3,78 mg/L (48 h)	Ceriodaphnia dubia	Crustacean	
EC: 203-625-9	EC50	Non-applicable			

#### 12.2 Persistence and degradability:

### Substance-specific information:



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradab	ility
Toluene	BOD5	2,5 g O2/g	Concentration	100 mg/L
CAS: 108-88-3	COD	Non-applicable	Period	14 days
EC: 203-625-9	BOD5/COD	Non-applicable	% Biodegradable	100 %

#### 12.3 Bioaccumulative potential:

#### **Substance-specific information:**

Identification	Bioaccumulation potential		
Toluene	BCF	90	
CAS: 108-88-3	Pow Log	2.73	
EC: 203-625-9	Potential	Moderate	

#### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Toluene	Koc	178	Henry	672,8 Pa·m³/mol
CAS: 108-88-3	Conclusion	Moderate	Dry soil	Yes
EC: 203-625-9	Surface tension	2,793E-2 N/m (25 °C)	Moist soil	Yes

#### 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

#### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

#### 12.7 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
16 03 05*	organic wastes containing hazardous substances	Hazardous	

### Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP10 Toxic for reproduction, HP4 Irritant — skin irritation and eye damage

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

### **SECTION 14: TRANSPORT INFORMATION**

### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

- CONTINUED ON NEXT PAGE 
Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1) Page 9/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 14: TRANSPORT INFORMATION (continued)



**14.1 UN number or ID number:** UN1294 **14.2 UN proper shipping name:** TOLUENE

**14.3** Transport hazard class(es): 3 Labels: 3

14.4 Packing group: II14.5 Environmental hazards: No

14.6 Special precautions for user

Special regulations: Non-applicable

Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 1 l

14.7 Maritime transport in bulk according to IMO instruments:

Non-applicable

#### Transport of dangerous goods by sea:

With regard to IMDG 40-20:



14.1 UN number or ID number: UN1294
14.2 UN proper shipping name: TOLUENE
14.3 Transport hazard class(es): 3

Labels: 3

14.4 Packing group: II

14.5 Marine pollutant: No

14.6 Special precautions for user

Special regulations:

EmS Codes:

Physico-Chemical properties:

Non-applicable
F-E, S-D
see section 9

Limited quantities: 1 L

Segregation group: Non-applicable

14.7 Maritime transport in bulk according to IMO

Non-applicable

instruments:

### Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



14.1 UN number or ID number: UN129414.2 UN proper shipping name: TOLUENE

14.3 Transport hazard class(es): 3 Labels: 3 14.4 Packing group: II

14.5 Environmental hazards: No14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Maritime transport in bulk** Non-applicable

according to IMO instruments:

### **SECTION 15: REGULATORY INFORMATION**

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012: Non-applicable

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1) Page 10/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 15: REGULATORY INFORMATION (continued)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

# Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Contains more than 0.1 % of Toluene by weight. 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.

Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

### **SECTION 16: OTHER INFORMATION**

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

#### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMMISSION REGULATION (EU) 2020/878

#### Texts of the legislative phrases mentioned in section 2:

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

H304: May be fatal if swallowed and enters airways.

H361d: Suspected of damaging the unborn child.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Flam. Lig. 2: H225 - Highly flammable liquid and vapour.

Repr. 2: H361d - Suspected of damaging the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H336 - May cause drowsiness or dizziness.

#### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### **Principal bibliographical sources:**

http://echa.europa.eu http://eur-lex.europa.eu

#### **Abbreviations and acronyms:**



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### C2 500, P9 0035, P9 104, P9 0535 - Toluen

Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1)

### SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code IATA: International Air Transport Association

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET 
Date of compilation: 24/11/2020 Revised: 21/10/2022 Version: 2 (Replaced 1) Page 12/12