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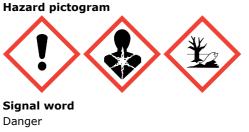
		o -'	Tolidine		
Creat	ion date	27th September 2019			
Revisi	ion date	02nd December 2024	Version	3.0	
SECT	ION 1: Identification	of the substance/mixture	and of the company/under	taking	
1.1.	Product identifier	-	o-Tolidine	-	
	Substance / mixture		substance		
	Chemical name		4,4'-bi-o-toluidine		
	CAS number		119-93-7		
	Index number		612-041-00-7		
	EC (EINECS) number		204-358-0		
	Other substance nam	e			
	o-Tolidine				
1.2.	Substance's intend		ory synthesis, industrial applic	-	
	Substance's intend Chemical production, Substance uses adv The product should n Details of the suppl	ed use analytical chemistry, laborat /ised against	ory synthesis, industrial applic n those referred in Section 1.	-	
1.2. 1.3.	Substance's intend Chemical production, Substance uses adv The product should n Details of the suppl Supplier	ed use analytical chemistry, laborat /ised against ot be used in ways other than lier of the safety data shee	ory synthesis, industrial applic n those referred in Section 1. e t	ations.	
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	Substance's intend Chemical production, Substance uses adv The product should n Details of the suppl Supplier Name or trade Address Identification n VAT Reg No Phone E-mail	ed use analytical chemistry, laborat vised against ot be used in ways other than lier of the safety data shee name	ory synthesis, industrial applic n those referred in Section 1. et Ing. Petr Švec - PENT Radiová 1122/1, Prał Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemicals	ations. ΓΑ s.r.o. na 10, 102 00	
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	Substance's intend Chemical production, Substance uses adv The product should n Details of the suppl Supplier Name or trade Address Identification n VAT Reg No Phone E-mail Web address	ed use analytical chemistry, laborat rised against ot be used in ways other than lier of the safety data shee name umber (CRN)	ory synthesis, industrial applic n those referred in Section 1. et Ing. Petr Švec - PENT Radiová 1122/1, Prak Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemicals www.pentachemicals data sheet Ing. Petr Švec - PENT	rations. ГА s.r.o. ha 10, 102 00 .eu .eu ГА s.r.o.	
	Substance's intend Chemical production, Substance uses adv The product should n Details of the suppl Supplier Name or trade Address Identification n VAT Reg No Phone E-mail Web address Competent person Name	ed use analytical chemistry, laborat vised against ot be used in ways other than lier of the safety data shee name umber (CRN)	ory synthesis, industrial applic n those referred in Section 1. et Ing. Petr Švec - PENT Radiová 1122/1, Prak Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemicals www.pentachemicals	rations. ГА s.r.o. ha 10, 102 00 .eu .eu ГА s.r.o.	

Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

Acute Tox. 4, H302 Carc. 1B, H350 Aquatic Chronic 2, H411 **Most serious adverse effects on human health and the environment**

May cause cancer. Harmful if swallowed. Toxic to aquatic life with long lasting effects.

2.2. Label elements





SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

o-Tolidine					
Creation date	27th September 2019				
Revision date	02nd December 2024	Version	3.0		

Dangerous substance

4,4'-bi-o-toluidine	
(Index: 612-041-00-7; CAS: 1)	19-93-7)
Hazard statements	
H302	Harmful if swallowed.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P308+P313	IF exposed or concerned: Get medical advice/attention.
Supplemental information	

Restricted to professional users.

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. Does not contain any PMT or vPvM components. Dust may form explosive mixture with air.

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 4,4'-bi-o-toluidine		Acute Tox. 4, H302 Carc. 1B, H350 Aquatic Chronic 2, H411	1

Notes

1 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. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

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.

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.



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended o-Tolidine Creation date 27th September 2019 Revision date 02nd December 2024 Version 3.0

If swallowed

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

If inhaled Not expected. If on skin Not expected. If in eyes Not expected. If swallowed

Irritation, nausea.

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

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. 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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections See the Section 7, 8 and 13.

See the Section 7, 8 and 15.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up.



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		according to Regulation (EC)	No 1907/2006 (REACH)	as amended
		о-Т	olidine	
Creat	ion date	27th September 2019		
Revis	ion date	02nd December 2024	Version	3.0
7.3.	Specific end use not available	e(s)		
	•	controls/personal protection		
8.1.	Control parame	ters		
	none			
8.2.	Exposure control			
	Exposure contro	DIS		
	Follow the usual achieved only by	measures intended for health pro- local suction or efficient general	ventilation. Do not eat,	drink and smoke during work. Wash you
	Follow the usual achieved only by	measures intended for health pro- local suction or efficient general with water and soap after work a	ventilation. Do not eat,	pecially for good ventilation. This can b drink and smoke during work. Wash you heal and rest.
	Follow the usual achieved only by hands thoroughly	measures intended for health pro- local suction or efficient general with water and soap after work a	ventilation. Do not eat,	drink and smoke during work. Wash you
	Follow the usual achieved only by hands thoroughly Eye/face protec	measures intended for health pro- local suction or efficient general with water and soap after work a	ventilation. Do not eat,	drink and smoke during work. Wash you
	Follow the usual achieved only by hands thoroughly Eye/face protec It is not needed. Skin protection	measures intended for health pro- local suction or efficient general with water and soap after work a stion	ventilation. Do not eat, nd before breaks for a m	drink and smoke during work. Wash you
	Follow the usual achieved only by hands thoroughly Eye/face protec It is not needed. Skin protection	measures intended for health pro- local suction or efficient general with water and soap after work a stion Protective gloves resistant to the	ventilation. Do not eat, nd before breaks for a m	drink and smoke during work. Wash you neal and rest.
	Follow the usual achieved only by hands thoroughly Eye/face protec It is not needed. Skin protection Hand protection:	measures intended for health pro- local suction or efficient general with water and soap after work a stion Protective gloves resistant to the	ventilation. Do not eat, nd before breaks for a m	drink and smoke during work. Wash you neal and rest.
	Follow the usual achieved only by hands thoroughly Eye/face protec It is not needed. Skin protection Hand protection: Respiratory pro	measures intended for health pro- local suction or efficient general with water and soap after work a stion Protective gloves resistant to the stection	ventilation. Do not eat, nd before breaks for a m	drink and smoke during work. Wash you neal and rest.
	Follow the usual achieved only by hands thoroughly Eye/face protec It is not needed. Skin protection Hand protection: Respiratory pro It is not needed.	measures intended for health pro- local suction or efficient general with water and soap after work a stion Protective gloves resistant to the stection	ventilation. Do not eat, nd before breaks for a m	drink and smoke during work. Wash you neal and rest.
	Follow the usual achieved only by hands thoroughly Eye/face protec It is not needed. Skin protection Hand protection: Respiratory pro It is not needed. Thermal hazard Not available.	measures intended for health pro- local suction or efficient general with water and soap after work a stion Protective gloves resistant to the stection	ventilation. Do not eat, nd before breaks for a m	drink and smoke during work. Wash you neal and rest.

SEC 9.1

L.	ON 9: Physical and chemical properties Information on basic physical and chemical prope	rties
	Physical state	solid
	Colour	white
	Odour	characteristic
	Melting point/freezing point	129-134 °C
	Boiling point or initial boiling point and boiling range	200 °C
	Flammability	data not available
	Lower and upper explosion limit	data not available
	Flash point	data not available
	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
	Partition coefficient n-octanol/water (log value)	2.34
	Vapour pressure	data not available
	Density and/or relative density	data not available
	Relative vapour density	data not available
	Particle characteristics	data not available
2.	Other information	

9.2 not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.



	SAFETY DATA SHEET
	according to Regulation (EC) No 1907/2006 (REACH) as amended
	o-Tolidine
	on date27th September 2019on date02nd December 2024Version3.0
10.3.	Possibility of hazardous reactions Unknown.
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.	-
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.
SECTI 11.1.	ON 11: Toxicological information Information on hazard classes as defined in Regulation (EC) No 1272/2008 No toxicological data is available for the substance.
	Acute toxicity Harmful if swallowed.
	Skin corrosion/irritation Based on available data the classification criteria are not met.
	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 May cause cancer.
	Reproductive toxicity Based on available data the classification criteria are not met.
	Toxicity for specific target organ - single exposure Based on available data the classification criteria are not met.
	Toxicity for specific target organ - repeated exposure Based on available data the classification criteria are not met.
	Aspiration hazard Based on available data the classification criteria are not met.
11.2.	Endocrine disrupting properties
	Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption for humans. Other information not available



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

o-Tolidine					
Creation date	27th September 2019				
Revision date	02nd December 2024	Version	3.0		

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

- **12.2.** Persistence and degradability No data available for the substance.
- 12.3. Bioaccumulative potential

No data available for the substance.

12.4. Mobility in soil

Based on available data the classification criteria are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on available data the classification criteria are not met. Does not contain any PBT or vPvB components. 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 Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption in the environment. 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. 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.

SECTION 14: Transport information

- 14.1. UN number or ID number
 - UN 3077
- 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (o-TOLIDINE)

- 14.3. Transport hazard class(es)
 - 9 Miscellaneous dangerous substances and articles
- 14.4. Packing group
- 14.5. Environmental hazards

not relevant

- **14.6.** Special precautions for user not available
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant



	SAFETY DATA SHEET						
	according to Regulation (EC) No 1907/2006 (REACH) as amended						
	o-Tolidine						
Creation date Revision date	27th September 2019 02nd December 2024	Version	3.0				
Additional inform	mation						
Hazard identi	fication No.	90					
UN number		3077					
Classification	code	M7					
Safety signs		9+hazardous for the env	vironment				
			3				
Tunnel restric	ction code	(-)					
Air transport - I	CAO/IATA						
Packaging ins	structions passenger	956					
	jing instructions	956					
Marine transport							
EmS (emerge	ency plan)	F-A, S-F					

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).



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

o-Tolidine

Creation date	27th September 2019			
Revision date	02nd December 2024	Version	3.0	

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

4,4'-bi-o-toluidine

Restriction	Conditions of restriction
28	1. Shall not be placed on the market, or used,
	— as substances,
	 as constituents of other substances, or, in mixtures, for supply to the general public when the individual concentration in the substance or
	 in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:
	 — either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
	- the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.
	Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:
	"Restricted to professional users".
	 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: motor fuels which are covered by Directive 98/70/EC, mineral oil products intended for use as fuel in mobile or fixed combustion plants,
	 fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Regulation (EC) No 1272/2008;
	(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.
	(f) devices covered by Regulation (EU) 2017/745.
Chomical caf	- otv assessment

15.2. Chemical safety assessment

No chemical safety assessment has been performed for this substance.



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	SAFETY I	DATA SHEET				
according to Regulation (EC) No 1907/2006 (REACH) as amended						
	o-Tolidine					
Creation date	Creation date 27th September 2019					
Revision date	02nd December 2024	Version	3.0			

No chemical safety assessment has been performed for this substance.



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according to Regulation (EC) No 1907/2006 (REACH) as amended

o-Tolidine						
Creation date	27th September 2019					
Revision date	02nd December 2024	Version	3.0			

No chemical safety assessment has been performed for this substance.

SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet
H302	Harmful if swallowed.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.
Guidelines for safe handling	used in the safety data sheet
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P308+P313	IF exposed or concerned: Get medical advice/attention.
Other important information	n about human health protection
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms used in the safety data sheet
Acute Tox.	Acute toxicity
ADR	European agreement concerning the international carriage of dangerous goods by road
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
Carc.	Carcinogenicity
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
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
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile 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



SAFETY DATA SHEET								
according to Regulation (EC) No 1907/2006 (REACH) as amended								
o-Tolidine								
Creation date Revision date	27th September 2019 02nd December 2024	Version	3.0					
vPvB	Very persistent and	very bioaccumulative						
vPvM	Very persistent and very mobile							
Training guid	delines							
	rsonnel about the recommended ways ing the product.	s of use, mandatory pro	tective equipment, first aid a	and prohibited				

Recommended restrictions of use

not available

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 3.0 replaces the SDS version from Friday, 30 September 2022. Changes were made in sections 1, 2, 11, 12, 13, 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.