

	SAFETY	DATA SHEET
	according to Regulation (EC)	No 1907/2006 (REACH) as amended
		-Cresol
Creatio	on date 20th September 2019	
evisio	on date 28th November 2024	Version 3.0
ECTI	ON 1: Identification of the substance/mixture	and of the company/undertaking
.1.	Product identifier	m-Cresol
	Substance / mixture	substance
	Chemical name	m-cresol
	CAS number	108-39-4
	Index number	604-004-00-9
	EC (EINECS) number	203-577-9
	Other substance name	200 077 0
	m-Cresol	
L. 2.	Relevant identified uses of the substance or r	mixture and uses advised against
	Substance's intended use	mixture and uses advised against
	Chemical production, analytical chemistry, laborate	ony synthesis industrial applications
	Substance uses advised against	ory synthesis, industrial applications.
	The product should not be used in ways other than	a those referred in Section 1
3.	Details of the supplier of the safety data shee	2L
	Supplier	
	Name or trade name	Ing. Petr Švec - PENTA s.r.o.
	Address	Radiová 1122/1, Praha 10, 102 00
		Czech Republic
	Identification number (CRN)	02096013
	VAT Reg No	CZ02096013
	Phone	+420 226 060 681
	E-mail	info@pentachemicals.eu
	Web address	www.pentachemicals.eu
	Competent person responsible for the safety	
	Name	Ing. Petr Švec - PENTA s.r.o.
	E-mail	info@pentachemicals.eu
1.4.	Emergency telephone number	
	European emergency number: 112 112	
	E-mail Emergency tele European emerg ON 2: Hazards io	ency number: 112 112
2.1.	Classification of the substance or mixture	with Deculation (EC) No 1272 (2000
	Classification of the substance in accordance	with Regulation (EC) NO 1272/2008
	The substance is classified as dangerous.	
	Acute Tox. 3, H301+H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Most serious adverse effects on human healt	h and the environment
	Causes severe skin burns and eye damage. Toxic i long lasting effects.	f swallowed or in contact with skin. Harmful to aquatic life with

Hazard pictogram



Danger



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Dangerous substance							
m-cresol							

(Index: 604-004-00-9; CAS: 108-39-4) Hazard statements

Hazard statements	
H301+H311	Toxic if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.
Precautionary stateme	nts
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

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
Index: 604-004-00-9 CAS: 108-39-4 EC: 203-577-9	substance main component m-cresol		Acute Tox. 3, H301+H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	1

Notes

1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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

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



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If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

INDUCE VOMITING! Vomiting should be induced in the person only if conscious, within 1 hour from ingestion. If in doubt whether vomiting should be induced, contact the Toxicological Information Centre and give information about the substances or composition of the product as provided on the original packaging or in the safety data sheet of the product. FOLLOWING INGESTION OF TOXIC OR HIGHLY TOXIC SUBSTANCES, GIVE 10-20 CRUSHED TABLETS OF ACTIVATED CARBON, MIXED IN WATER, WITHIN NO LATER THAN 5 MINUTES - irrespective of whether vomiting could be induced. Call medical rescue service.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system.

If on skin Causes severe skin burns. If in eyes Causes serious eye damage. If swallowed

Corrosion of the digestion system can occur.

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. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.



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6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. 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.

7.3. Specific end use(s) not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

none

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

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

Skin protection

Suitable material: polychloroprene. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	white
Odour	specific
Melting point/freezing point	31 °C
Boiling point or initial boiling point and boiling range	200-205 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	86 °C
Auto-ignition temperature	data not available



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Decompositio	n temperature	data not available	e				
pН		5 (undiluted)					
Kinematic viso	cosity	data not available data not available					
Solubility in w	ater						
Partition coeff	Partition coefficient n-octanol/water (log value)		data not available				
Vapour pressu	ıre	data not available					
Density and/o	r relative density						
Density		1.034 g/cm ³ at 2	0 °C				
Relative vapo	ur density	data not available					
Particle chara	cteristics	data not available	e				
9.2. Other inform	nation						
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.
- 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. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Fe, Pb.

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

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. No toxicological data is available for the substance.

Acute toxicity

Toxic if swallowed or in contact with skin.

m-cresol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	
Oral	LD50	OECD 401	242 mg/kg		Rat (Rattus norvegicus)	М	
Skin	LD50		620 mg/kg		Rabbit		

Skin corrosion/irritation

Causes severe skin burns and eye damage.

m-cresol								
Route of exposure	Result	Exposure time	Species	Source				
	Causes damage	24 hours	Rabbit	ECHA				



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Serious eye damage/irritation

Causes severe skin burns and eye damage.

m-cresol						
Route of exposure	Result	Exposure time	Species			
	Serious eye damage					

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

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. Information on other hazards

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects. Acute toxicity

m-cresol							
Parameter	Value	Exposure time	Species	Environment	Source		
LC50	7.6 mg/l	96 hours	Fish (Salvelinus fontinalis)		ECHA		
	>99.5 mg/l	48 hours	Daphnia (Daphnia pulicaria)		US-EPA		

12.2. Persistence and degradability

The following data are available.



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Biodegradability

m-cresol				
Parameter	Value	Exposure time	Environment	Result
	96 %	10 days		

12.3. Bioaccumulative potential

The following data are available.

m-cresol					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
	0.05 mg/l	3 days	Leuciscus idus		

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 2076

14.2. UN proper shipping name CRESOLS, LIQUID

14.3. Transport hazard class(es)

- 6.1 Toxic substances
- 14.4. Packing group II
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user not available



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		1	m-Cresol		
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14.7.	Maritime transport not relevant Additional informat Hazard identifica UN number Classification coo Safety signs	tion No.	D instruments	8	
	Tunnel restriction	n code	(D/E)	▼⁄	
	Air transport - ICAC				
	Packaging instrue		653		
	Cargo packaging		660		
	Marine transport - 1				
	EmS (emergency	′ plan)	F-A, S-B		

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 (EC) 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).

15.2. Chemical safety assessment

No chemical safety assessment has been performed for this substance.



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	according to Regulation (EC) I	No 1907/2006 (REACH)	as amended	
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No chemical safety assessment has been performed for this substance.



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No chemical safety assessment has been performed for this substance.

SECTION 16: Other information

A list of standard risk phrase	es used in the safety data sheet
H301+H311	Toxic if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
Guidelines for safe handling	used in the safety data sheet
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
-	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
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
Eye Dam.	Serious eye damage
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
LD50	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
РВТ	Persistent, bioaccumulative and toxic
РМТ	Persistent, mobile and toxic

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ppm	Parts per million			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals			
RID	Agreement on the transport of dangerous goods by rail			
Skin Corr.	Skin corrosion			
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 com	pounds		
vPvB	Very persistent and	very bioaccumulative		
vPvM	Very persistent and	very mobile		
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

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 Wednesday, 5 October 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.