

	according to Regulation (EC) No 1907/2006 (REACH) as amended						
<u> </u>			Cresoi				
	on date	20th September 2019		2.0			
Revis	on date	05th October 2022	Version	2.0			
SECT	ON 1: Identification	of the substance/mixture a	nd of the company/un	dertaking			
1.1.	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	e					
	m-Cresol						
1.2.	Relevant identified	uses of the substance or m	ixture and uses advise	d against			
	Substance's intended use						
	Substance's Intende	ed use					
		e <b>d use</b> analytical chemistry, laborato	ry synthesis, industrial ap	plications.			
		analytical chemistry, laborator	ry synthesis, industrial ap	plications.			
	Chemical production, Substance uses adv	analytical chemistry, laborator					
1.3.	Chemical production, <b>Substance uses adv</b> The product should no	analytical chemistry, laborator	those referred in Section				
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#### 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.

Acute Tox. 3, H301+H311 Skin Corr. 1B, H314 Aquatic Chronic 3, H412

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

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

Causes severe skin burns and eye damage. Toxic if swallowed or in contact with skin. Harmful to aquatic life with long lasting effects.



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#### 2.2. Label elements



#### Signal word

Danger

#### Dangerous substance

m-cresol	
(Index: 604-004-00-9; CAS: 108-39-4)	
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Hazard statements	
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.
H301+H311	Toxic if swallowed or in contact with skin.
Precautionary statements	
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.

#### 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 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.



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#### **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.

#### 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.



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#### 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.

#### 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

#### 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.



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#### **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					
	Decomposition temperature	data not available					
	рН	5 (undiluted)					
	Kinematic viscosity	data not available					
	Solubility in water	data not available					
	Partition coefficient n-octanol/water (log value)	data not available					
	Vapour pressure	data not available					
	Density and/or relative density						
	Density	1,034 g/cm <sup>3</sup> at 20 °C					
9.2.	Other information						
	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.

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	



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				Cresol			
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	Skin corrosion/irri						
		ourns and eye damage	е.				
	m-cresol						
	Route of exposure	Result	Expos	ure time	Species		Source
		Causes damage	24 hou	Jr	Rabbit		ECHA
	Serious eye damag	ge/irritation	•		•		•
	Causes severe skin b	ourns and eye damage	е.				
	m-cresol			•		•	
	Route of exposure	Result	sult			Species	
	Serious eye damage		nage				
	Respiratory or skir		-				
	Based on available d	lata the classification	criteria are	not met.			
	Germ cell mutager	-					
		lata the classification	criteria are	not met.			
	Carcinogenicity						
	Reproductive toxic	lata the classification	criteria are	not met.			
	-	lata the classification (	critoria aro	not met			
		ic target organ - sin					
		lata the classification					
		ic target organ - rep					
	Based on available d	lata the classification	criteria are	not met.			
Aspiration hazard							
	Based on available data the classification criteria are not met.						
	Information on oth						
L. <b>2</b> .	The substance does not have endocrine disrupting properties in accordance with the criter					criteria set ou	t in Commission
1.2.		n (EU) 2017/2100 or (					

#### 12.1. Toxicity

#### Acute toxicity

Harmful to aquatic life with long lasting effects.

m-cresol

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

#### 12.2. Persistence and degradability

Biodegradability

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Parameter	Value	Exposure time	Environment	Result
	96 %	10 day		

not available

#### 12.3. Bioaccumulative potential



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Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
	0.05 mg/l	3 day	Leuciscus idus		
Not available.					

#### 12.4. Mobility in soil

Not available.

#### 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. 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.

#### 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.

#### **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 - substances presenting medium danger

- 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



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Additional in	formation			
Hazard id	entification No.	68		
UN numb	er	2076		
Classifica	tion code	TC1		
Safety sig	jns	6.1+8		
Air transport	- ICAO/IATA			
Packaging	g instructions passenger	653		
	ckaging instructions	660		
Marine trans	-			
EmS (em	ergency 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 (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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been performed for this substance.



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No chemical safety assessment has been performed for this substance.



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#### SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.
H301+H311	Toxic if swallowed or in contact with skin.
Guidelines for safe handling	used in the safety data sheet
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P273	Avoid release to the environment.
-	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
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
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
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
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	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
MARPOL	International Convention for the Prevention of Pollution from Ships
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 vPvB	Volatile organic cor Very Persistent and	npounds I very Bioaccumulative				
Acute Tox.Acute toxicityAquatic ChronicHazardous to the aquatic environment (chronic)Eye Dam.Serious eye damageSkin Corr.Skin corrosion						
ways of handling	nnel about the recommended way	s of use, mandatory pro	ptective equipment, first aid and prohibited			
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 amen REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data the manufacturer of the substance / mixture, if available - information from registration dossiers. The changes (which information has been added, deleted or modified) The version 2.0 replaces the SDS version from 20 September 2019. Changes were made in sections 1,2,4,5,8,1 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.