



# Safety Data Sheet - Version 5.0

Preparation Date 8/27/2014

Latest Revision Date (If Revised) 1/4/2018

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Chemical Name o-Cresol

Catalogue # C781910

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Uses To be used only for scientific research and development. Not for use in humans or animals.

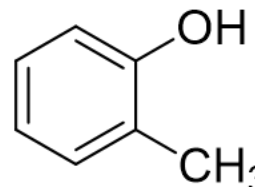
### 1.3 Details of the Supplier of the Safety Data Sheet

Company Toronto Research Chemicals  
2 Brisbane Road  
Toronto, ON M3J 2J8  
CANADA

Telephone +14166659696

FAX +14166654439

Email orders.trc@lgcgroup.com



### 1.4 Emergency Telephone Number

Emergency# +1(416) 665-9696 between 0800-1700 (GMT-5)

## 2. HAZARDS IDENTIFICATION

### 2.1/2.2 Classification of the Substance or Mixture and Label Elements

#### GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Oral (Category 3)

Acute Toxicity, Dermal (Category 3)

Skin Corrosion (Category 1B)

Eye Damage/Irritation (Category 1)

Hazardous to the Aquatic Environment, Acute Hazard (Category 2)

Hazardous to the Aquatic Environment, Long-Term Hazard (Category 2)

#### GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Danger



#### GHS Hazard Statements

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### GHS Precautionary Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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 or doctor/physician.

P330	Rinse mouth.
P304/P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician

### **2.3 Unclassified Hazards/Hazards Not Otherwise Classified**

No data available.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1 Substances**

**Molecular Formula:** C<sub>8</sub>H<sub>8</sub>O

**Molecular Weight:** 108.14

**CAS Registry #:** 95-48-7

**EC#:** 202-423-8

#### **Synonyms**

1-Hydroxy-2-methylbenzene; 1-Methyl-2-hydroxybenzene; 2-Cresol; 2-Hydroxytoluene; 2-Methylphenol; NSC 23076; NSC 36809; o-Cresylic Acid; o-Hydroxytoluene; o-Methylphenol; o-Methylphenylol; o-Oxytoluene; o-Toluol; 2-Methylphenol

### **3.2 Mixtures**

Not a mixture.

## **4. FIRST AID MEASURES**

### **4.1 Description of First Aid Measures**

#### **General Advice**

If medical attention is required, show this safety data sheet to the doctor.

#### **If Inhaled**

If inhaled, move casualty to fresh air. If not breathing, give artificial respiration and consult a physician.

#### **In Case of Skin Contact**

Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### **In Case of Eye Contact**

**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.**

#### **If Swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

### **4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

Lungs, thorax, or respiration: acute pulmonary edema. Behavioral: somnolence; tetany.

### **4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available.

## **5. FIREFIGHTING MEASURES**

### **5.1 Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special Hazards Arising from the Substance or Mixture**

Carbon oxides

### **5.3 Advice for Firefighters**

Wear self contained breathing apparatus for fire fighting if necessary. Use personal protection equipment.

### **5.4 Further Information**

No data available.

## **6. ACCIDENTAL RELEASE MEASURES**

### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Avoid contact with skin, eyes or clothing.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Method and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

Storage conditions: 4°C

### 7.3 Specific End Uses

For scientific research and development only. Not for use in humans or animals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
o-Cresol	95-48-7	TWA	5.000000 ppm 22.000000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Substance may be readily absorbed through intact skin			
		TWA	5.000000 ppm 22.000000 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	Skin (percutaneous)			
		TWA	5.000000 ppm 22.000000 mg/m3	Canada. Ontario OELs
	Skin			
		TWA	10.000000 mg/m3	Canada. British Columbia OEL
	Contributes significantly to the overall exposure by the skin route.			
		TWA	5.000000 ppm 22.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
Skin contact does contribute to exposure.				

### 8.2 Exposure Controls

#### Appropriate Engineering Controls

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

#### Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

#### Eye/Face Protection

Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

### Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as "chemical resistant" by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.

Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material.

Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.

Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

### Body Protection

Fire resistant (Nomex) coveralls or chemical-resistant bodysuit (laminated Tychem SL or equivalent).

### Respiratory Protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

#### A) Appearance

Colourless to Orange Oil to Low-Melting Solid

#### C) Odour Threshold

No data available

#### E) Melting Point/Freezing Point

No Data Available

#### G) Flash point

No data available

#### I) Flammability (Solid/Gas)

No data available

#### K) Vapour Pressure

No data available

#### M) Relative Density

No data available

#### O) Partition Coefficient: n-octanol/water

No data available

#### Q) Decomposition Temperature

No data available

#### S) Explosive Properties

No data available

#### B) Odour

No data available

#### D) pH

No data available

#### F) Initial Boiling Point/Boiling Range

No data available

#### H) Evaporation Rate

No data available

#### J) Upper/Lower Flammability/Explosive Limits

No data available

#### L) Vapour Density

No data available

#### N) Solubility

Chloroform (Soluble), DMSO (Slightly), Methanol (Slightly)

#### P) Auto-Ignition Temperature

No data available

#### R) Viscosity

No data available

#### T) Oxidizing Properties

No data available

### 9.2 Other Information

no data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical Stability

Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

No data available.

#### **10.4 Conditions to Avoid**

No data available.

#### **10.5 Incompatible Materials**

Strong oxidizing agents.

#### **10.6 Hazardous Decomposition Products**

In the event of fire: See section 5. Other decomposition products: No data available.

### **11. TOXICOLOGICAL INFORMATION**

#### **11.1 Information on Toxicological Effects**

##### **A) Acute Toxicity**

Oral LD50: Rat - 121 mg/kg

Inhalation LC50: No data available.

Dermal LD50: Rat - 620 mg/kg

##### **B) Skin Corrosion/Irritation**

No data available

##### **C) Serious Eye Damage/Irritation**

Corrosive - causes skin and eye burns. May also cause respiratory tract damage.

##### **D) Respiratory or Skin Sensitization**

No data available

##### **E) Germ Cell Mutagenicity**

No data available

##### **F) Carcinogenicity**

No data available

##### **G) Reproductive Toxicity/Teratogenicity**

No data available

##### **H) Single Target Organ Toxicity - Single Exposure**

Moderate respiratory tract irritation.

##### **I) Single Target Organ Toxicity - Repeated Exposure**

No data available

##### **J) Aspiration Hazard**

No data available

##### **K) Potential Health Effects and Routes of Exposure**

###### **Inhalation**

May be harmful if inhaled. Material is extremely destructive to the mucous membranes and respiratory tract.

###### **Ingestion**

Toxic if swallowed.

###### **Skin**

Toxic if absorbed through skin. Causes skin burns.

###### **Eyes**

Causes severe eye burns and possible permanent eye damage.

##### **L) Signs and Symptoms of Exposure**

Lungs, thorax, or respiration: acute pulmonary edema. Behavioral: somnolence; tetany.

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

##### **M) Additional Information**

RTECS: G06300000

### **12. ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

##### **Toxicity to fish:**

LC50 - Leuciscus idus (Golden orfe) - 10.00 mg/l - 96 h

##### **Toxicity to daphnia and other aquatic invertebrates:**

Immobilization EC50 - Daphnia magna (Water flea) - 15.8 mg/l - 48 h

##### **Toxicity to algae:**

EC50 - SELENASTRUM - 100.00 mg/l - 72 h

#### **12.2 Persistence and Degradability**

No data available.

#### **12.3 Bioaccumulative Potential**

No data available.

#### **12.4 Mobility in Soil**

No data available.

#### **12.5 Results of PBT and vPvB Assessment**

No data available.

#### **12.6 Other Adverse Effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

### **13. DISPOSAL CONSIDERATIONS**

#### **13.1 Waste Treatment Methods**

##### **A) Product**

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

##### **B) Contaminated Packaging**

Dispose of as above.

##### **C) Other Considerations**

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

### **14. TRANSPORT INFORMATION**

#### **14.1 UN Number**

DOT (US): UN3455

IATA: UN3455

IMDG: UN3455

ADR/RID: UN3455

#### **14.2 UN Proper Shipping Name**

DOT (US)/IATA:

Cresols, solid

IMDG/ARD/RID:

CRESOLS, SOLID

#### **14.3 Transport Hazard Class(es)**

DOT (US): 6.1 (8)

IATA: 6.1 (8)

IMDG: 6.1 (8)

ADR/RID: 6.1 (8)

#### **14.4 Packing Group**

DOT (US): II

IATA: II

IMDG: II

ADR/RID: II

#### **14.5 Environmental Hazards**

DOT (US): None

IATA: None

IMDG: None

ADR/RID: None

#### **14.6 Special Precautions for User**

None

### **15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of WHMIS (Canada), OSHA 1910.1200 (US), and EU Regulation EC No. 1907/2006 (European Union).

#### **15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

##### **A) Canada**

**DSL/NDSL Status:** This product or a component of this product is registered on the Canadian DSL/NDSL.

##### **B) United States**

**TSCA Status:** This product or a component is listed on the US EPA TSCA.

##### **C) European Union**

**ECHA Status:** This product or a component is registered with the EU ECHA.

#### **15.2 Chemical Safety Assessment**

No data available

### **16. OTHER INFORMATION**

#### **16.1 Revision History**

Original Publication Date: 8/27/2014

#### **16.2 List of Abbreviations**

LD50	Median lethal dose of a substance required to kill 50% of a test population.
LC50	Medial lethal concentration of a substance required to kill 50% of a test population.
LDLo	Lowest known lethal dose
TDLo	Lowest known toxic dose
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances

### **16.3 Further Information**

Copyright 2015. Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.