

Revision number: 3 Revision date: 10/17/2016

### 1. IDENTIFICATION

Product name: Product code: 2-tert-Butyl-p-cresol B0910

#### Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

### 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 1] Skin Corrosion/Irritation [Category 1C]

Danger!

Signal word:

Hazard Statement(s):

Causes serious eye damage Causes severe skin burns and eye damage

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] protective clothing, eye protection and face protection. Wear eye protection. Wear face protection (full length face shield). If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves,

Hazards not otherwise classified: [HNOC] May be harmful if in contact with skin. May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Substance 2-tert-Butyl-p-cresol

For laboratory research purposes. Not for drug or household use.

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SAFETY DATA SHEET

#### Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

**Personal precautions:** 

Personal protective equipment:

(nitrile).

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Percent:	>98.0%(GC)			
CAS Number:	2409-55-4			
Molecular Weight:	164.25			
Chemical Formula:	C <sub>11</sub> H <sub>16</sub> O			
Synonyms:	2-tert-Butyl-4-methylphenol			
4. FIRST-AID MEASURES				
Inhalation: Skin contact:	Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathin difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. For severe burns, immediate medical attention is required. Immediately call a poison center or doctor. Remove and wash contaminated clothing before re-use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that			
Eye contact:	medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Mov victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.			
Ingestion:	Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.			
Symptoms/effects:				
Acute: Delayed:	Pain. Redness. No data available			
mmediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, becaus the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.			
5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media:	Dry chemical, $CO_2$ or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.			
Specific hazards arising from the che				
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.			
neated. Move containers from fire area in <b>Special protective equipment for fire</b> - Wear positive pressure self-contained b				

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.

Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust

respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves

#### 6. ACCIDENTAL RELEASE MEASURES **Emergency procedures:**

Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:** 

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Avoid inhalation of vapor or mist. Manipulate under an adequate fume hood. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Hygroscopic material, store in a tightly sealed container.
Storage incompatibilities:	Bases, Combustible substances, Store away from oxidizing agents

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	No data available
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#### Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Wear protective clothing (lab coat and chemical resistant boots).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Slightly pale yellow No data available No data available		
Melting point/freezing point:	52°C (126°F)	pH:	No data available
Boiling point/range:	244°C (471°F)	Vapor pressure:	No data available
Decomposition temperature:	No data available	Vapor density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic Viscosity:	No data available		
Partition coefficient: n-octanol/water (log P <sub>ow</sub> )	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point:	47°C (117°F)	Autoignition temperature:	No data available
Flammability (solid, gas):	No data available	Flammability or explosive limits:	
		Lower: No data avail	lable
		Upper: No data avail	lable

#### Solubility(ies):

### 10. STABILITY AND REACTIVITY

Reactivity: **Chemical Stability:**  Not Available. Air sensitive. Light sensitive. Moisture sensitive.

## 10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products:

#### No hazardous reactivity has been reported.

Air sensitive. Exposure to air. Exposure to light. Exposure to moisture. Light sensitive. Moisture sensitive. Acid anhydrides, Acid chlorides, Alkali, Bases, Corrodes steel, Oxidizing agents No data available

OSHA:

No data available

ivn-mus LD50:10 mg/kg

### 11. TOXICOLOGICAL INFORMATION

#### RTECS Number: GO7000000

Acute Toxicity: orl-rat LD50:2500 mg/kg

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

**Respiratory or skin sensitization:** No data available

Germ cell mutagenicity: No data available

#### Carcinogenicity:

No data available

IARC: No data available

#### Reproductive toxicity:

No data available

Inhalation, Eye contact, Ingestion, Skin contact.

#### Routes of Exposure: Symptoms related to exposure:

. .

No data available

Skin contact may produce burrns. Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. Eye

contact can result in corneal damage or blindness. Overexposure may result in serious illness or death. Potential Health Effects:

NTP:

May be harmful if inhaled or ingested. Overexposure may result in serious illness or death. **Target organ(s):** No data available

### 12. ECOLOGICAL INFORMATION

Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available
Persistence and degradability:	0%(by BOD), 0%(HPLC)
Bioaccumulative potential (BCF):	69~120(conc. 10 ug/L), 53~85(conc. 1 ug/L)
Mobillity in soil:	No data available
Partition coefficient:	No data available
n-octanol/water (log Pow)	
Soil adsorption (Koc):	No data available
Henry's Law:	No data available
constant (PaM <sup>3</sup> /mol)	

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13. DISPOSAL	CONSIDERATION	IS				
Disposal of product:		Recycle to proc rules and regul chemical incine assistance but regulatory com Waste are liste	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.			
Disposal of conta			inused product. Do not re-use en			
Other considerations:		Observe all fed	eral, state and local regulations v	when disposing of the substance.		
14. TRANSPOR	RT INFORMATION	1				
DOT (US) UN number: UN2430	<b>Proper Shippin</b> Alkylphenols, sc		<b>Class or Division:</b> 8 Corrosive material	Packing Group: III		
<b>IATA</b> UN number: UN2430	<b>Proper Shipping Name:</b> Alkylphenols, solid, n.o.s.		<b>Class or Division:</b> 8 Corrosive material	Packing Group: III		
<b>IMDG</b> <b>UN number:</b> UN2430	<b>Proper Shippin</b> Alkylphenols, so		Class or Division: 8 Corrosive material	Packing Group: III		
EmS number:		F-A, S-B				
15. REGULATO	DRY INFORMATIO	N				
	Control Act (TSCA N the EPA Toxic Sub	8b.): stances Control Act (T	SCA) inventory.			
US Federal Regu	lations					
CERCLA Hazardo SARA 313 SARA 302	3:	Reportable Quantity: Not Listed Not Listed				
State Regulation	<u>s</u>					
State Right-to-Kr	now					
Massachu New Jers Pennsylva California Propos	ey ania	Not Listed Not Listed Not Listed Not Listed				
Other Informatio	n					

### **Other Information**

## NFPA Rating:

Health:2Flammability:2Instability:0

# HMIS Classification:

Health:	2
Flammability:	2
Physical:	0

## International Inventories

WHMIS hazard class: EC-No:

E: Corrosive material. 219-314-6

## 16. OTHER INFORMATION

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### **TCI AMERICA**

### 16. OTHER INFORMATION

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.