

#### Revision number: 1 Revision date: 07/06/2018

# 1. IDENTIFICATION

# TCI AMERICA SAFETY DATA SHEET

T. IDENTIFICATION			
Product name: Product code:	Phenol P1610		
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household 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	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		
2. HAZARD(S) IDENTIFICATION			
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 3] Eye Damage/Irritation [Category 1] Germ Cell Mutagenicity [Category 1B] Toxic to Reproduction [Category 1B] Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Aquatic Hazard (Acute) [Category 2] Skin Corrosion/Irritation [Category 1B]		
Signal word:	Danger!		
Hazard Statement(s):	Harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage May cause genetic defects May damage fertility or the unborn child Toxic to aquatic life Causes damage to: Respiratory System Nervous System Cardiovascular System Kidney Causes damage to organs through prolonged or repeated exposure: Liver Thymus Cardiovascular System Kidney Central Nervous System Auditory System Spleen		
Pictogram(s) or Symbol(s):			
Precautionary Statement(s): [Prevention]	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, mist, vapors or spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear		
[Response]	protective gloves, protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. 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. Immediately call a poison center or doctor. If exposed: Call a poison center or doctor.		
[Storage] [Disposal]	Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40		
[h-201]			

## **TCI AMERICA**

Vesicant

## CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION O	N INGREDIENTS		
Substance/mixture:	Substance		
Components:	Phenol		
Percent:	>99.5%(GC)		
CAS RN:	108-95-2		
Molecular Weight:	94.11		
Chemical Formula:	C6H6O		
4. FIRST-AID MEASURES			
Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a		
	POISON CENTER or doctor/physician.		
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.		
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.		
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.		
Symptoms/effects:			
Acute:	Pain. Redness.		
Delayed:	May cause heritable genetic damage in humans.		
Indication of any immediate medical attention of available. Notes to physician: No data available	ention:		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Hazardous combustion products:	These products include: Carbon oxides		
Other specific hazards:	Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.		
Conditions for safe storage, including a Storage conditions:	Avoid all contact! <b>ny incompatibilities</b> Keep container tightly closed. Store in a cool and dark place.		
ctorage conditions.	Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Light-sensitive Air-sensitive Comply with laws.		

**TCI AMERICA** 

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: ACGIH TLV(TWA): OSHA PEL(TWA): JSOH OELs(TWA):	5 ppm (skin) 5 ppm (skin) 5 ppm (skin)
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid		
Form:	Crystal - Lump		
Colour:	White - Pale red		
Odour:	Characteristic		
Odor threshold:	No data available		
Odour threshold:	No data available		
Melting point/freezing point:	42°C (108°F)	pH:	No data available
Boiling point/range:	181°C (358°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	3.2
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flack naint	No dete evelleble		74500 (404005)
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits:	715°C (1319°F)
		Lower:	1.4%
		Upper:	10%
Solubility(ies):			
[Water]	Soluble (8g/100mL, 20	°C)	
[Other solvents]			
Very soluble:	Ether, Alcohols, Acetone, Chloroform, Glycerol, Carbon disulfide		
Soluble:	Benzene		

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents Carbon dioxide, Carbon monoxide

# 11. TOXICOLOGICAL INFORMATION

## RTECS Number: SJ3325000

Acute Toxicity: ihl-rat LC50:316 mg/m <sup>3</sup> orl-rat LD50:317 mg/kg		rl-hmn LDLo:14 g/kg kn-rbt LD50:630 mg/kg		
Skin corrosion/irritation: skn-rbt 500 mg/24H SEV				
Serious eye damage/irritation: eye-rbt 5 mg SEV				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: oms-hmn-hla:17 mg/L mmo-mus-lym:300 mg/L (+S9)	oms-hmn-hla:17 mg/L mmo-sat:40 umol/plate (-S9)			
Carcinogenicity: skn-mus TDLo:16 g/kg/40W-I				
IARC: Group 3 (Not classifiable as carcinogenic to humans).	NTP: No data ava	ailable OSHA	: No data available	
Reproductive toxicity:   orl-mus TDLo:2600 mg/kg (6-15D preg)   orl-rat TDLo:1200 mg/kg (6-15D preg)				
Target organ(s):   Causes damage to: Respiratory System Nervous System Cardiovascular System Kidney   Causes damage to organs through prolonged or repeated exposure: Liver Thymus Cardiovascular System Kidney Central Nervous System   Auditory System Spleen   12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea: Algae:	sh:96h LC50:25 mg/L (Oryzias latipes)rustacea:48h EC50:15 mg/L (Daphnia magna)			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	accumulative potential(BCF): No data available			
Log Pow: Soil adsorption (Koc):	1.46 No data available			

13. DISPOSAL CONSIDERATIONS

Henry's Law (PaM 3/mol):

3.3 x 10<sup>-2</sup>

IS. DISFUSAL CONSIDERATIONS	
Disposal of product:	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 container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

#### 14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN1671	<b>Proper Shipping N</b> Phenol, solid	ame:	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group:	
IATA UN number: UN1671	<b>Proper Shipping N</b> Phenol, solid	ame:	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group: II	
IMDG UN UN1671 numb er:	<b>Proper Shipping N</b> Phenol, solid	ame:	<b>Class or Division:</b> 6.1 Toxic material.	Packing Group: II	
EmS number: Reportable Quanti	tiy:	F-A, S-A 1000 Pounds (454 I	Kilograms)		

#### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu	lations			
CERCLA Hazardous substance and Reportable Quantity:				
SARA 313:		Listed		
SARA 302:		Listed		
Ctata Damulation	_			
State Regulation				
State Right-to-Kn				
Massachuse	its	Listed		
New Jersey		Listed		
Pennsylvania	3	Listed		
California Propos	sition 65:	Not Listed		
Other Information	n			
NFPA Rating:	<u> </u>		HMIS Classification:	
Health:	3		Health:	
Flammability:	2		Flammability:	
Instability:	0		Physical:	
International Inventories				
Canada: DSL	interies	On DSL		
EC-No:		203-632-7		
EC-NU.		203-032-7		

#### 16. OTHER INFORMATION

#### Revision date: 07/06/2018

#### Revision number: 1

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 goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

3 2 0