

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

#### 1. IDEN

Product name: Product code:	Hydroquinone H0186	
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) <b>Responsible department:</b> 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] Skin Corrosion/Irritation [Category 2]	

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SAFETY DATA SHEET

WHMIS 2015:	Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 1] Sensitization - Skin [Category 1] Germ Cell Mutagenicity [Category 1B] Carcinogenicity [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 2] Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1]
Signal word:	Danger!
Hazard Statement(s):	Harmful if swallowed Causes skin irritation Causes serious eye damage May cause an allergic skin reaction May cause genetic defects Suspected of causing cancer Very toxic to aquatic life Very toxic to aquatic life with long lasting effects Causes damage to: Kidney Central Nervous System Causes damage to organs through prolonged or repeated exposure: Blood System Respiratory System May cause damage to organs through prolonged or repeated exposure: Liver Kidney Central Nervous System



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. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact

[Response]

[HNOC]

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[Storage] [Disposal]	lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed: Call a poison center or doctor. Collect spillage. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).
Hazards not otherwise classified:	None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Hydroquinone
Percent:	>99.0%(T)
CAS RN:	123-31-9
Molecular Weight:	110.11
Chemical Formula:	C6H6O2
Synonyms:	1,4-Dihydroxybenzene , HQ , Quinol
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. Call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. 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. Call a POISON CENTER or doctor/physician.

# Ingestion:

#### Symptoms/effects: Acute: Delayed:

Pain. Redness. May cause heritable genetic damage in humans. May cause skin sensitization. Possibly carcinogenic to humans.

Indication of any immediate medical attention: Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

Call a POISON CENTER or doctor/physician. Rinse mouth.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to
equipment and emergency procedures:	non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
Methods and materials for containment	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected
and cleaning up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 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. Avoid all contact!
Conditions for safe storage, including an	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.
	Store under inert gas. Store locked up.
	Store away from incompatible materials such as oxidizing agents.
	Light-sensitive Air-sensitive
Packaging material:	Comply with laws.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: ACGIH TLV(TWA): OSHA PEL(TWA):	1 mg/m³ (sen) 2 mg/m³
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 - Powder		
Colour:	White - Almost white		
Odour:	No data available		
Odor threshold:	No data available		
Odour threshold:	No data available		
Melting point/freezing point:	173°C (343°F)	pH:	No data available
Boiling point/range:	282°C (540°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	3.8
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
Flash point:	No data available	Autoignition temperature:	516°C (961°F)
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	No data available
		Upper:	No data available
Solubility(ies):			
[Water] [Other solvents]	Soluble (5.9g/100mL, 15°C	C)	
Very soluble:	Ether, Alcohols		
Soluble:	Acetone		
Slightly soluble:	Benzene		
	-		

## **10. STABILITY AND REACTIVITY**

Reactivity:No datChemical stability:StablePossibility of hazardous reactions:Dust eConditions to avoid:Static ofIncompatible materials:OxidiziHazardous decomposition products:Carbor

No data available Stable under proper conditions. Dust explosion possible if in powder or granular form, mixed with air. Static discharge Oxidizing agents, Strong bases Carbon dioxide, Carbon monoxide

## 11. TOXICOLOGICAL INFORMATION

#### RTECS Number: MX3500000

Acute Toxic orl-rat LD50: skn-rbt LD50			orl-hmn LDLo:29 mg/kg ipr-rat LD50:170 mg/kg		
<b>Skin corros</b> skn-hmn 2%	ion/irritation: MLD				
<b>Serious eye</b> No data avai	damage/irritation: lable				
<b>Respiratory</b> No data avai	or skin sensitization: lable				
cyt-hmn-lym	<b>utagenicity:</b> 50 umol/L/48H ) nmol/plate (-S9)		mnt-hmn-lym 75 umol/L		
Carcinogen orl-rat TDLo:	i <b>city:</b> 12875 mg/kg/103W-		orl-mus TDLo:25750 mg/kg	g/2Y-C	
IARC:	Group 3 (Not classifiable as carcinogenic to humans).	NTP:	No data available	OSHA:	No data available
Reproductiv scu-rat TDLc	re toxicity: :5100 mg/kg (51D male)		orl-rat TDLo:667 mg/kg (11	ID preg)	

## Target organ(s):

Causes damage to: Kidney Central Nervous System

Causes damage to organs through prolonged or repeated exposure: Blood System Respiratory System May cause damage to organs through prolonged or repeated exposure: Liver Kidney Central Nervous System

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Crustacea: Algae:	96h LC50:0.044 mg/L (Oncorhynchus mykiss) 48h EC50:0.061 mg/L (Daphnia magna) 72h EC50:0.053 mg/L (Selenastrum capricornutum)
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	70.0 % (by BOD) , 95.0 % (by TOC) , 97.2 % (by UV-VIS) 40
Log Pow:	0.59
Soil adsorption (Koc):	50
Henry's Law (PaM <sup>3</sup> /mol):	3.87 x 10 <sup>-6</sup>

## 13. DISPOSAL 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
Disposal of container: Other considerations:	be allowed to enter the environment, drains, water ways, or the soil. 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

DOT (US) UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	<b>Class or Division:</b> 9 Miscellaneous hazardous material	Packing Group: 
<u>IATA</u> UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	<b>Class or Division:</b> 9 Miscellaneous hazardous material	Packing Group: III
IMDG UN UN3077 numb er:	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	<b>Class or Division:</b> 9 Miscellaneous hazardous material	Packing Group: 
EmS number:	F-A, S-F		

#### 15. REGULATORY INFORMATION

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

US Federal Regulations   CERCLA Hazardous substance and Reportable Quantity:   SARA 313: Listed   SARA 302: Listed					
State Regulations					
State Right-to-Kn					
Massachusetts		Listed			
New Jersey		Listed			
Pennsylvania		Listed			
California Proposition 65:		Not Listed			
Other Information	<u>1</u>				
NFPA Rating:	_		HMIS Classification:		
Health:	2		Health:	2	
Flammability:	1		Flammability:	1	
Instability:	0		Physical:	0	
International Inventories					
Canada: DSL EC-No:		On DSL 204-617-8			
		204-017-0			

## 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.