### Hydroquinone

# **CAROLINA®** www.carolina.com

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Hydroquinone Science education applications 1,4-Dihydroxybenzene; Quinol; Dihydroquinone Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

#### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. Suspected of causing cancer. Very toxic to aquatic life.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1, Skin Sensitisation Category 1, Hazardous to the aquatic environment - Acute Category 1, Skin Corrosion/Irritation Category 2, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 2, Acute Toxicity - Oral Category 4

**Other Safety Precautions:** 

IF exposed or concerned: Get medical advice/attention.

Section 3	Composition	Composition / Information on Ingredients			
Chemical Name Hydroquinone (CAS#	: 123-31-9) 90 - 100%	<u>CAS #</u> 123-31-9	<u>%</u> 100		
Section 4	li i i i i i i i i i i i i i i i i i i	First Aid Measures			
Emergency and First	st Aid Procedures				
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy				
Skin Contact:	to do. Continue rinsing.				
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.				
Take off contaminated clothing and wash before reuse. If skin irritation or rash			of fash occurs. Get medical		
Ingestion:	advice/attention. Wash contaminated clothing before reuse. gestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.				
ingestion.	II SWALLOWED. Call a 1 010011 C		sei unweil.		
Section 5	Fire	efighting Procedures			

Extinguishing Media:Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this<br/>material.Fire Fighting Methods and Protection:Firefighters should wear full protective equipment and NIOSH approved self-contained<br/>breathing apparatus.Fire and/or Explosion Hazards:N/AHazardous Combustion Products:Carbon dioxide, Carbon monoxide

	Spill or Leak	Procedures				
Released or Spilled: eq ne circ are spi the Pro to rec gra Do		xposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment eads must be evaluated based on information provided on this sheet and the special rcumstances created by the spill including; the material spilled, the quantity of the spill, the rea in which the spill occurred, and the expertise of employees in the area responding to the bill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Avoid e generation of dusts during clean-up. revent the spread of any spill to minimize harm to human health and the environment if safe do so. Wear complete and proper personal protective equipment following the commendation of Section 8 at a minimum. Dike with suitable absorbent material like ranulated clay. Gather and store in a sealed container pending a waste disposal evaluation. o not allow the spilled product to enter public drainage system or open waterways. Collect				
	Handling an	d Storage				
Avoid breathing d when using this pr to the environmen protective equipm ventilated areas. T wash immediately Store locked up. k	st/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke duct. Contaminated work clothing should not be allowed out of the workplace. Avoid release Wear protective gloves/protective clothing/eye protection/face protection. Use personal nt as required. Keep container tightly closed in a cool, well-ventilated place. Use only in well- oxic by inhalation and if swallowed. Avoid contact with skin and eyes. After contact with skin, with plenty of water.					
	Protection In	formation				
	ACGI	H	<u>OSHA F</u>	<u>PEL</u>		
\S# 123-31-9) 90 -	<b>(TWA)</b> 1 mg/m3 TWA	(STEL) N/A	<b>(TWA)</b> 2 mg/m3 TWA	(STEL) N/A		
control ParametersEngineering Measures:Personal Protective Equipment (PPE):Respiratory Protection:Respirator Type(s):Eye Protection:Eye Protection:Skin Protection: </td <td>s of use. ear a NIOSH espirator in the ye wash station nd other protective ical break-through Wash hands and</td>			s of use. ear a NIOSH espirator in the ye wash station nd other protective ical break-through Wash hands and			
	Obtain special ins Avoid breathing c when using this pi to the environmen protective equipm ventilated areas. T wash immediately Store locked up. k Blue - Toxic. Store AS# 123-31-9) 90 - rs isures: ive Equipment (PPE ection:	Case Material Is Exposure to the spilled mater equipment recommendations needs must be evaluated bas circumstances created by the area in which the spill occurre spill. Never exceed any occur the generation of dusts during Prevent the spread of any spit to do so. Wear complete and ecommendation of Section 8 granulated clay. Gather and a Do not allow the spilled produspillage.   Obtain special instructions before use. Do not ha Avoid breathing dust/fume/gas/mist/vapors/spra when using this product. Contaminated work clot to the environment. Wear protective gloves/prote protective equipment as required. Keep container ventilated areas. Toxic by inhalation and if swallowash immediately with plenty of water.   Store locked up. Keep container tightly closed in Blue - Toxic. Store separately in a secured area.   As# 123-31-9) 90 -   rs   surger:   ive Equipment (PPE):   etimes:   ive requipment depending up and replace at regular in other exposed areas	Case Material Is Exposure to the spilled material may be severed equipment recommendations found in Section 8 needs must be evaluated based on information circumstances created by the spill including; the area in which the spill occurred, and the expertissipall. Never exceed any occupational exposure it the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to do so. Wear complete and proper personal pirecommendation of Section 8 at a minimum. Diligranulated clay. Gather and store in a sealed or Do not allow the spilled product to enter public or spillage.   Obtain special instructions before use. Do not handle until all safety. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughl when using this product. Contaminated work clothing should not be to the environment. Wear protective gloves/protective clothing/eye protective equipment as required. Keep container tightly closed in a ventilated areas. Toxic by inhalation and if swallowed. Avoid contact wash immediately with plenty of water.   Store locked up. Keep container tightly closed in a cool, well-ventila Blue - Toxic. Store separately in a secured area.   As# 123-31-9) 90 -   rs   surgers   we are Signification and if any construction required under no approved respirator if any exposure is poss wear a NIOSH/MSHA-approved (or equiva positive pressure mode with emergency es Wear a NIOSH/MSHA-approved (or equiva positive pressure mode with emergency es Wear a NIOSH/MSHA-approved (clear any comparison of any exposure is poss Wear a NIOSH/MSHA-approved (clear any comparison of any exposure is poss Wear a NIOSH/MSHA-approved (clear any comparison of any exposure is poss Wear a NIOSH/MSHA-approved (clear any comparison of any exposure is poss Wear a NIOSH/MSHA-approved (clear any compa	led: equipment recommendations found in Section 6 of this SDS. Personal proti- needs must be evaluated based on information provided on this sheet and circumstances created by the spill including; the material spilled, the quanti area in which the spill occurred, and the expertise of employees in the area spill. Never exceed any occupational exposure limits. Ventilate the contain the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to human health and the e to do so. Wear complete and proper personal protective equipment followir recommendation of Section 8 at a minimum. Dike with suitable absorbent n granulated clay. Gather and store in a sealed container pending a waste di Do not allow the spilled product to enter public drainage system or open was spillage.   Obtain special instructions before use. Do not handle until all safety precautions have been rea Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, when using this product. Contaminated work clothing should not be allowed out of the workpla to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Torotective equipment as required. Keep container tighty closed in a cool, well-ventilated place. Blue - Toxic. Store separately in a secured area.   Protection Information surses: No exposure limits exist for the constituents of this product. General ro might be required to maintain operator comfort under normal condition ive Equipment (PPE):   (s): Wear a NIOSH/MSHA-approved (or equivalent) full-facepiece aritine re positive pressure mode with emergency escape provisions Wear chemical splash goggles when handling this product. General ro might be required to maintain operator comfort under normal condition so respirator if any exposure is possible.		

Formula: 1,4-(HO)2C6H4 Molecular Weight: 110.11 g/mole Appearance: Colorless Crystalline Solid Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available 170 C Boiling Point: No data available 287 C Flash Point: No data available 165 C Flammable Limits in Air: N/A N/A Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): 3.81 Specific Gravity: 1.358 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

#### Section 10

#### **Reactivity Data**

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Polymerization:		No data available Stable under normal conditions. Exposure to light. Exposure to air. Keep lid tightly closed when not in use. Caustics (bases), Strong oxidizing agents Will not occur				
Section 11		Toxicity	y Data			
Routes of Entry Symptoms (Acute):	Respiratory disorders	n, eye or skin contact. , , Eye disorders, Live nal,, Central Nervous S	r disorders, Allergies, I System disorders.	mpaired Kidney Func	ction, Cardiovascular	
Delayed Effects:	No data available		- , ,			
Acute Toxicity: Chemical Name Hydroquinone (CAS# 1	23-31-9) 90 - 100%	<b>CAS Number</b> 123-31-9	<b>Oral LD50</b> Oral LD50 Rat 320 mg/kg Oral LD50 Mouse 350 mg/kg	Dermal LD50 Dermal LD50 MAMMAL 5970 mg/kg	Inhalation LC50 Not determined	
Carcinogenicity: Chemical Name		CAS Number	IARC	NTP	OSHA	
No data available		123-31-9	Not listed	Not listed	Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	itagenicity: Evidence of a mutagenic effect.   ratogenicity: No evidence of a teratogenic effect (birth defect).   nsitization: Evidence of a sensitization effect.   productive: No evidence of negative reproductive effects.   rget Organ Effects: See Section 2					
Section 12		Ec	ological Data			
Overview: Mobility: Persistence:	Severe ecological hazard. This product may be toxic to plants and/or wildlife. Highly/very toxic to fish and other water organisms. No data No data					

Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Other Adverse Effects:	No data

Severe ecological hazard. This product may be toxic to plants and/or wildlife. Highly/ve	ry t
ish and other water organisms.	
No data	
No data	

Chemical Name	CAS Number	Eco Toxicity
Hydroquinone (CAS# 123-31-9) 90 - 100%	123-31-9	96 HR LC50 BRACHYDANIO RERIO 0.17 MG/L
		48 HR EC50 DAPHNIA MAGNA 0.29 MG/L
		120 HR EC50 DESMODESMUS SUBSPICATUS 13.5 MG/L
		72 HR EC50 PSELIDOKIRCHNERIELLA SUBCAPITATA 0.334

Not Determined

#### 72 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 0.335 MG/L

#### **Section 13**

#### **Disposal Information**

contact a permitted waste disposer (TSD) to assure compliance.

**Disposal Methods:** 

Dispose in accordance with all applicable Federal, State and Local regulations. Always

Waste Disposal Code(s):

#### **Transport Information**

Section 14

#### Ground - DOT Proper Shipping Name:

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Hydroquinone) Marine pollutant: No

#### Air - IATA Proper Shipping Name:

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Hydroquinone)

#### **Regulatory Information** Section 15 **TSCA Status:** All components in this product are on the TSCA Inventory. **Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ CAA 112(2) Number ΤQ Hydroquinone (CAS# 123-31-9) 123-31-9 Hydroquinone No 100 lb final RQ 500 lb lower No 90 - 100% 45.4 kg final TPQ; 10000 RQ lb upper TPQ

#### **Section 16**

Revised: 09/09/2015

#### Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Additional Information

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health