

Safety Data Sheet

Date of issue: 02/18/2015

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Substance name	: Hydroquinone
Chemical name	: p-Dihydroxybenzene
CAS No	: 123-31-9
Product code	: LC15490
Formula	: C6H4(OH2)
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of the safety of	data sheet
LabChem Inc Jackson's Pointe Commerce Park Building 1000, Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	1010 Jackson's Pointe Court
1.4. Emergency telephone number	
E e e e e e e e e e e e e e e e e e e e	OUENTREO 4 000 404 0000 - 044 700 507 0007

Emergency number

: CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

Classification (GHS-US)

Acute Tox. 4 (Oral)	H302
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
Carc. 2	H351
Aquatic Acute 1	H400

Full text of H-phrases: see section 16

2.2. **Label elements**

GHS-US labeling

Hazard pictograms (GHS-US)

	GHS05 GHS07 GHS08 GHS09
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H341 - Suspected of causing genetic defects H351 - Suspected of causing cancer H400 - Very toxic to aquatic life
Precautionary statements (GHS-US)	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P261 - Avoid breathing dust P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P272 - Contaminated work clothing must not be allowed out of the workplace P273 - Avoid release to the environment P280 - Wear protective gloves, eye protection P301+P312 - IF SWALLOWED: Call a poison center/doctor if you feel unwell P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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	P308+P313 - IF exposed or conc P310 - Immediately call a poison P330 - If swallowed, rinse mouth P333+P313 - If skin irritation or ra P362+P364 - Take off contamina P391 - Collect spillage P405 - Store locked up P501 - Dispose of contents/conta	center/doctor ash occurs: Get medical ted clothing and wash it	advice/attention before reuse
.3. Other hazards			
Other hazards not contributing to the lassification	: None under normal conditions.		
.4. Unknown acute toxicity (GHS-U	US)		
lot applicable			
SECTION 3: Composition/inform	nation on ingredients		
.1. Substance			
ubstance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Hydroquinone (Main constituent)	(CAS No) 123-31-9	100	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400
ull text of H-phrases: see section 16		·	
2. Mixture			
ot applicable			
1. Description of first aid measure	es		
irst-aid measures general	: Never give anything by mouth to advice (show the label where pos		
irst-aid measures after inhalation	: Allow victim to breathe fresh air.	Allow the victim to rest.	
irst-aid measures after skin contact	: Remove affected clothing and wa by warm water rinse. If skin irritat contaminated clothing before reus	ion or rash occurs: Get r	with mild soap and water, followed nedical advice/attention. Wash
irst-aid measures after eye contact	: Rinse cautiously with water for se do. Continue rinsing. Immediately		contact lenses, if present and easy to doctor/physician.
irst-aid measures after ingestion	: Rinse mouth. Do NOT induce vor CENTER/doctor/physician if you	0 0	y medical attention. Call a POISON
.2. Most important symptoms and	effects, both acute and delayed		
ymptoms/injuries	: Suspected of causing genetic def	ects.	
ymptoms/injuries after skin contact	: May cause an allergic skin reaction	on.	
ymptoms/injuries after eye contact	: Causes serious eye damage.		
ymptoms/injuries after ingestion	: Swallowing a small quantity of thi	s material will result in se	erious health hazard.
.3. Indication of any immediate me btain medical assistance.	edical attention and special treatment ne	eeded	
ECTION 5: Firefighting measur	·es		<u></u>
.1. Extinguishing media			
uitable extinguishing media	: Foam. Dry powder. Carbon dioxid	de. Water spray. Sand.	
nsuitable extinguishing media	: Do not use a heavy water stream		
.2. Special hazards arising from the	•		
.3. Advice for firefighters			
irefighting instructions	: Use water spray or fog for cooling chemical fire. Prevent fire-fighting		
rotection during firefighting	: Do not enter fire area without pro	-	

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SECTION 6: Accidental	I release measures				
6.1. Personal precaution	ns, protective equipment and emergency procedures				
6.1.1. For non-emergency	For non-emergency personnel				
Protective equipment	: Safety glasses. Protective clothing. Gloves. Dust mask.				
Emergency procedures	: Evacuate unnecessary personnel.				
6.1.2. For emergency res	ponders				
Protective equipment	: Equip cleanup crew with proper protection.				
Emergency procedures	: Ventilate area.				
6.2. Environmental pred	cautions				
Prevent entry to sewers and pu	ublic waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.				
6.3. Methods and material for containment and cleaning up					
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.				
6.4. Reference to other	sections				
See Heading 8. Exposure cont	rols and personal protection.				
SECTION 7: Handling a	and storage				
7.1. Precautions for saf	e handling				
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.				
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.				
7.2. Conditions for safe	storage, including any incompatibilities				

7.2.	Conditions for	or safe	storage,	including	any	/ incompatibilities
Storage	conditions				Ke	ep container closed v

Storage conditions	: Keep container closed when not in use.
Incompatible products	: Strong oxidizers.
Incompatible materials	: Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
Hydroquinone (123-31-9)				
ACGIH	ACGIH TWA (mg/m³)	1 mg/m ³		
OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m ³		

8.2.	Exposure controls	
Appro	priate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Material should be handled in a laboratory hood whenever possible.
Persor	nal protective equipment	: Avoid all unnecessary exposure.
Hand	protection	: Wear protective gloves.
Eye pr	otection	: Chemical goggles or safety glasses.
Respir	atory protection	: Wear appropriate mask.
Other	information	: Do not eat, drink or smoke during use.

SECTIO	ON 9: Physical and chemical p	roperties
9.1.	Information on basic physical and ch	nemical properties
Physical s	state	: Solid
Appearan	ice	: Crystalline solid.

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Color: Colourless to white;On exposure to light: discoloursOdor: None.Odor threshold: No data availablepH: 3.75 70 g/L @ 20°CRelative evaporation rate (butyl acetate=1): No data availableMelting point: 170 - 172 °CFreezing point: No data available
Odor threshold: No data availablepH: 3.75 70 g/L @ 20°CRelative evaporation rate (butyl acetate=1): No data availableMelting point: 170 - 172 °C
pH: 3.75 70 g/L @ 20°CRelative evaporation rate (butyl acetate=1): No data availableMelting point: 170 - 172 °C
Relative evaporation rate (butyl acetate=1) : No data available Melting point : 170 - 172 °C
Melting point : 170 - 172 °C
Freezing point . No data available
Boiling point : 285 - 287
Flash point : 165 °C
Auto-ignition temperature : 515 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available
Specific gravity / density : 1.32 g/cm ³
Solubility : Soluble in ethanol. Soluble in ether. Soluble in water. Water: 70 g/l
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available
9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
Discolo	urs on exposure to air. Discolours on exposure to light.
10.3.	Possibility of hazardous reactions
Not esta	ablished.
10.4.	Conditions to avoid
Direct s	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
Strong	oxidizers.
10.6.	Hazardous decomposition products
	monoxide. Carbon dioxide.
SECT	ION 11: Toxicological information
44.4	Information on toxical offects

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

Hydroquinone (\f)123-31-9	
LD50 oral rat	302 mg/kg
ATE US (oral)	302.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
	pH: 3.75 70 g/L @ 20°C

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Serious eye damage/irritation	: Causes serious eye damage. pH: 3.75 70 g/L @ 20°C
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Suspected of causing cancer.
Hydroquinone (123-31-9)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life.
12.2. Persistence and degradability	
Hydroquinone (123-31-9)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Hydroquinone (123-31-9)	
Bioaccumulative potential	Not established.
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12.4. Mobility in soil No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	:
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of
	contents/container to comply with local, state and federal regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN3077 Environmentally hazardous substances, solid, n.o.s. (Hydroquinone), 9, III
UN-No.(DOT)	: UN3077
Proper Shipping Name (DOT)	: Environmentally hazardous substances, solid, n.o.s.
Department of Transportation (DOT) Hazard Classes	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT)

: 9 - Class 9 (Miscellaneous dangerous materials)



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DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
	 III - Minor Danger 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s." UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging. A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg: a. Metal: 11A, 11B, 11N, 21A, 21B and 21N b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2 c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2 d. Fiberboard: 11G e. Wooden: 11C, 11D and 11F (with inner liners) f. Fiexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner). B8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1, and 31H2); Co
DOT Packaging Exceptions (49 CFR 173.xxx)	must be transported in accordance with the applicable requirements of this subchapter. : 155
	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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SECTION 15: Regulatory information			
15.1. US Federal regulations			
Hydroquinone (123-31-9)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard		

15.2. International regulations

CANADA		
Hydroquinone (123-31-9)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class E - Corrosive Material	

EU-Regulations No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. **National regulations**

Hydroquinone (123-31-9)

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Muta. 2	Germ cell mutagenicity Category 2
Skin Sens. 1	Skin sensitization Category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H400	Very toxic to aquatic life

NFPA health hazard

NFPA fire hazard NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

- : 2 Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. : 1 - Must be preheated before ignition can occur.
- 0

and are not reactive with water.

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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: F

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.