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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

HYDROQUINONE

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

1.1 Product identifier:	
CAS Number:	123-31-9
EC number:	208-535-7.
1.2 SYNONYMS:	• 1,4-Benzenediol • P-Hydroxyphenol • Quinol • Para-dihydroxybenzene • 1,4-Dihydroxybenzene • 4-Hydroxyphenol • Benzene-1,4-diol • Hydroquinol

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity (Oral) (Category 4) Serious eye damage/eye Irritation (Category 1) Skin sensitisation (Category 1B) Germ cell mutagenicity(Category 2) Carcinogenicity (Category 2) Short-term (acute) aquatic Hazard (Category 1) Long-term (chronic) aquatic hazard (Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**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. **H410:** Very toxic to aquatic life with long lasting effects.
Precautionary statements:	**P201:** Obtain special instructions before use. **P202:** Do not handle until all safety precautions have been read and understood. **P280:** Wear protective gloves, protective clothing, eye protection, and face protection. **P301 + P312:** IF SWALLOWED: Call a POISON CENTER or 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. **P308 + P313:** IF exposed or concerned: Get medical advice/attention**.** **P310:** Immediately call a POISON CENTER or doctor. **P333 + P313:** If skin irritation or rash occurs: Get medical advice/attention. **P403 + P233:** Store in a well-ventilated place. Keep container tightly closed. **P405:** Store locked up. **P501:** Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation and potentially lead to lung damage with prolonged exposure,

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	particularly in poorly ventilated environments.
Ingestion:	can cause gastrointestinal irritation, nausea, vomiting, and potentially more severe effects such as systemic toxicity or organ damage if consumed in large quantities.
Skin Contact:	may cause irritation, sensitization, or allergic skin reactions, and prolonged exposure can lead to more severe effects such as dermatitis or pigmentation changes.
Eye contact:	can cause serious eye irritation, leading to symptoms such as redness, pain, and tearing.
Chronic Exposure:	may lead to prolonged skin irritation, dermatitis, or respiratory issues, and repeated or long-term exposure could potentially cause more severe health effects such as organ toxicity.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as skin disorders (e.g., eczema or dermatitis), respiratory conditions (e.g., asthma or bronchitis), or liver and kidney diseases, as it can cause further irritation, toxicity

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 123-31-9 HYDROQUINONE
Identification number(s):	EC number: 208-535-7

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	

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After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	can cause skin and eye irritation, respiratory discomfort, and gastrointestinal symptoms if ingested, while delayed effects may include persistent skin irritation, respiratory issues, or potential organ toxicity with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam. Dry chemical.
5.2 Special hazards arising from the substance or mixture:	Carbon monoxide, carbon dioxide.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device . Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Use only non-sparking tools.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.

7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.

	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Solid, needle like crystals.
Colour:	White
Odour:	Odourless
pH-value:	No data available
Melting point/Melting range:	172°C
Boiling point/Boiling range:	287°C
Flammability (solid, gaseous):	May form explosive dust-air mixture during processing, handling or other means.
Ignition temperature:	515°C
Decomposition temperature:	No data available
Self-igniting:	Not applicable
Flash point:	165°C
Danger of explosion:	Not applicable
Explosion limits: Lower:	50000 mg
Explosion limits: Upper:	No data available
Vapour pressure:	0.12 Pa at 20°C
Density at 20 °C:	1.3 g/cm^3.
Relative density:	1.3
Vapour density:	3.8
Evaporation rate:	No data available
Solubility in / Miscibility with- ·water at 20 °C:	slightly soluble
Partition coefficient:(n-octanol/water)	0.59
Viscosity:	No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Sublimes. Discolours in air.
10.3 Possibility of hazardous reactions	Reacts violently with strong oxidizers. Dust may form explosive mixture in air.
10.4 Conditions to avoid	Heat, air, sunlight.
10.5 Incompatible materials	Strong oxidising agents, strong reducing bases
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat) : 367 mg/kg (4hr) **LD50** (Dermal, Rabbit) : >2000 mg/kg **LC50** (Inhalation Rat) : no data available.
Skin corrosion/Irritation:	Causes severe skin irriation and burns.
Serious eye damage/irritation:	Causes severe irritation and burns of the eyes.
Respiratory damage/irritation:	Classification not possible.
Ingestion:	No data available.
Germ cell mutagenicity:	Results found positive from vivo somatic cells in gene mutation tests.
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
Specific target organ toxicity - single exposure:	Not classified
Specific target organ toxicity - repeated exposure:	Not classified
Aspiration hazard:	Not classified
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	readily biodegradable.

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SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.638 mg/l (96hr) EC50 (Daphnia magna (Water flea)): 0.134 mg/l (48 hr) ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.33 mg/l (72hr) NOEC (Pseudokirchneriella subcapitata (green algae)): 0.019 mg/l (72hr)
12.2 Persistence and degradability:	readily biodegradable.
12.3 Bioaccumulative potential:	low
12.4 Mobility in soil:	High
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Soap and Water, isopropyl alcohol, acetone, and mild detergents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	UN 3077
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Hydroquinone
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	9
14.4 Packing group · ADR, IMDG, IATA:	3
14.5 Environmental hazards:	Yes.
14.6 Special precautions for user:	Handle responsibly.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.