

MATERIAL SAFETY DATA SHEET
Hazardous according to criteria of Worksafe Australia

Date of Issue : Aug 2002

1. IDENTIFICATION

General

Product Name : HYDROQUINONE

Other Names : 1,4-BENZENEDIOL; p-DIHYDROXYBENZENE; HYDROQUINOL QUINOL;
TECQUINOL

UN No. : 2662

Dangerous Goods Class : 6.1

Subsidiary Risk : None Allocated

Hazchem Code : 2Z

Pack Group : III

EPG : 36

Poisons Schedule : 6

Uses :

As a photographic reducer and developer, dye intermediate, inhibitor of polymerisation, antioxidant for fats and oils, and as a stabiliser in paints and varnishes, motor fuels and oils.

1.1 Physical Description / Properties

Appearance : Colourless or white needle crystals. Odourless. Hygroscopic

Formula : C₆H₄(OH)₂

Boiling Point : 285 deg C

Melting Point : 170 deg C

Vapour Pressure : N/A

Specific Gravity : 1.33 (water = 1)

Flash Point : Closed Cup 169

pH : ()

Solubility in water : 72 g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit : N/A

Upper Explosion Limit : N/A

1.2 Other Properties

Soluble in 14 parts water, freely soluble in alcohol, ether, slightly soluble in benzene. Its solution becomes brown in air due to oxidation; the oxidation is very rapid in the presence of alkali.

1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
HYDROQUINONE	[123-31-9]	> 99.5

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2. HEALTH HAZARD INFORMATION

2.1 Health Effects - Acute

Swallowed

Harmful if swallowed. Material is irritating to the mucous membranes. Oral LD50 = 70mg/kg (Cat), 200 mg/kg (Dog), 320 mg/kg (Rat)

Eye

Frequent or prolonged exposure to dust or fumes is moderately irritative and may cause damage to the eyes.

Skin

Harmful if absorbed through the skin. Moderately toxic. Moderately irritative. Dermal LD50 = Not available

Inhaled

Harmful if inhaled. Exposure to dust or fumes is moderately irritative to the respiratory tract (including mucous membranes, throat and lungs). Inhalation LC50 = Not available

2.2 Health Effects - Chronic

Prolonged exposure can cause damage to the eyes.

2.3 First Aid

Swallowed

Contact a Doctor or the Poisons Information Centre Immediately IF CONSCIOUS (Do not give anything by mouth to unconscious patient) Give 1 - 3 cups of water Induce vomiting (Ipecac syrup or stimulate throat with finger) Immediately transport to a hospital or doctor

Eye

Flood eyes with clean water for 15 minutes - retract eyelids often Immediately transport to a hospital or doctor

Skin

Remove all contaminated clothing including footwear Wash affected areas thoroughly with mild soap and water If condition persists immediately transport to a hospital or doctor

Inhaled

Remove from contaminated area immediately; avoid becoming casualty If NOT breathing apply artificial resuscitation, preferably mouth-to-mouth Experienced person may administer Oxygen if breathing is difficult Immediately transport to a hospital or doctor

First Aid Facilities

2.5 Advice to Doctor

Not available

2.6 Toxicity Data

3. PRECAUTIONS FOR USE

3.1 Exposure Standards

TLV-TWA Air: 2 mg/m³ TLV:STEL:4 mg/m³

3.2 Engineering Controls

Provide general exhaust ventilation

3.3 Personal Protection

Ensure an eye bath and safety shower are available. Safety goggles All-purpose canister respirator Butyl rubber gloves and boots Cotton overalls to protect skin and clothing Avoid prolonged or repeated exposures. Wash contaminated clothing before re-use. Wash thoroughly after use and before eating, drinking smoking or going to the toilet.

3.4 Flammability

Keep away from ignition and heat sources (NO SMOKING) Ventilation is required to prevent a dust explosion

SAFE HANDLING INFORMATION

4.1 Storage / Transport

Transport or store in cool shaded position. Separate by > 12m if transporting , or D.G. Class 5.1 Material (Oxidising Agents) D.G. Class 5.2 Materials (Organic Peroxides). D.G. Class 8 Materials (Corrosives) Transport or store away from ignition sources

4.2 Packaging / Labelling

UN No. 2662

Class 6.1

Sub Risk None Allocated

Hazchem Code 2Z

Pack Group III

EPG No. 36

Shipping Name HYDROQUINONE

Hazard HARMFUL

Risk Phrases

R20/22 Harmful by inhalation and if swallowed.

Safety Phrases

S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes.

S39 Wear eye/face protection.

4.3 Spills and Disposal

Spills

Avoid raising dust. Eliminate flammables. Eliminate all ignition sources (NO SMOKING)

Evacuate area. Avoid raising dust. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

4.4 FIRE AND EXPLOSION HAZARD

Fire / Explosion

May burn if ignited or heated. Explosive upon heating. May cause oxidisable materials to burn/explode. Dust may form an explosive mixture in air. Violent reaction with sodium hydroxide.

Extinguishing Media

Evacuate area - move upwind of fire Summon Fire Brigade immediately, dial 000 Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam. Use equipment/media appropriate to surrounding conditions.

5 OTHER INFORMATION

Other Information

Not available

5.1 Contact Points

Organisation	Location	Telephone	Ask For
Redox Chemicals Pty Ltd	Wetherill Park NSW	02-97255155	Technical Officer
Poisons Information Centre	Westmead	131129	
		1800-251525	