HYDROQUINONE

| CAUTION Common Synonyms 1,4-Benzenediol p-Dihydroxybenzene Hydroquinol Pyrogentisic acid Quinol | | Solid Solid Sinks and mixes wi | 4. Fl 4.1 Flash Point: (molten) 35/ 4.2 Flammable I 4.3 Fire Extingu dry chemica 4.4 Fire Extingu | |
|---|---|---|---|--|
| Keep peopl Wear chem Shut off ign | ical protective ition sources. health and po | d contact with solid a suit with self-contair Call fire department. lution control agencie | ned breathing apparatus. | Used: Curro 4.5 Special Haza Products: 4.6 Behavior in possible. 4.7 Auto Ignition |
| Fire | Combustible Dust cloud n Extinguish w | nay explode if ignited ith water, dry chemic | 4.8 Electrical Ha available 4.9 Burning Rat | |
| Exposure | CALL FOR I DUST Irritating to e Harmful if inl If neyes, hu If breathing i SOLID Will burn eyr Irritating to e If swallowed consciousne Remove cor Flush affect IF IN EYES, IF SWALLO do nothing e | 4.10 Adiabatic F1 not availabl 4.11 Stoichomet (calc.) 4.12 Flame Tem available 4.13 Combustion Product): { 4.14 Minimum O Combustion 5.1 Reactivity w 5.2 Reactivity w 5.2 Reactivity w 5.3 Stability Dur 5.4 Neutralizing Caustics: 1 | | |
| Water Pollution | Effect of low May be dang | concentrations on a gerous if it enters wa nealth and wildlife offi | 5.5 Polymerizati 5.6 Inhibitor of F 6. WAT | |
| 1. CORRECTIVE Dilute and c Stop discha | lisperse | | 2. CHEMICAL DESIGNATIONS COMPatibility Group: Not listed. Gormula: 1, 4-CoH4(OH)2 MOVUN Designation: Not listed DOT 10 No.: 2660 CS CAS Registry No.: 123-31-9 AAERG Guide No.: 153 Standard Industrial Trade Classification: | available 6.3 Biological O 5 days 25% catechol 6.4 Food Chain None 6.5 GESAMP Ha |
| 3.2 Symptoms Foll of suffocati dyspnea, cy is 2 grams. initiation an 3.3 Treatment of E 3.4 TLV-TWA: 2 nm water for 15 3.4 TLV-TWA: 2 nm 3.5 TLV-STEL: Not 3.6 TLV-Ceiling: Nc 3.7 Toxicity by Inha | owing Expos on, increased rancesis, deliri, Direct contar di may resulti di may consulti di may provinci and demu ritic and demu ritic and demu sisted. It listed. sisted. sistion: Grade alation: Currently n assion: Grade alation: Currently n mg/m ³ (A: 2 mg/m ³ (A: 2 mg/m ³) | ure: Ingestion can cc respiration rate, vom m, and collapse; the vination of the eye wi ulceration of the cor ESTION: induce vor locents; get medical a medical attention. Sl 3; LDso = 370 mg/kg thy not available. dder cancer in mice, eristics: Currently not available | atory protection if dust is present use ringing in the ears, nausea, dizaness, a sense titing, pallor, muscular twitchings, headache, urine is green or brownish-green. Lethal adult dose th particles of hydroquinone can cause immediate nea. Contact with skin may cause dermatitis. niting: perform gastric lavage, and follow with a ttention. EVES: flush immediately with plenty of KIN: wash with soap and water. | |

| 4. FIRE HAZARDS | 7. SHIPPING INFORMATION |
|--|--|
| 4.1 Flash Point: (molten) 350°F O.C. 4.2 Flammable Limits in Air: Not pertinent 4.3 Fire Extinguishing Agents: Water, foam, | 7.1 Grades of Purity: Pure; Technical 7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement |
| dry chemical, carbon dioxide 4.4 Fire Extinguishing Agents Not to Be Used: Currently not available 4.5 Special Hazards of Combustion Products: Currently not available | 7.4 Venting: Open 7.5 IMO Pollution Category: Currently not availab 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available |
| 4.6 Behavior in Fire: Dust explosion is possible. 4.7 Auto Ignition Temperature: 960°F 4.8 Electrical Hazards: Currently not | 8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Keep Away From Food 8.2 49 CFR Class: 6.1 |
| available 4.9 Burning Rate: Not pertinent 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 30.9 | 8.3 49 CFR Package Group: III 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue) |
| (calc.) 4.12 Flame Temperature: Currently not available | Flammability (Red) 1 Instability (Yellow) 0 |
| 4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed | 8.6 EPA Reportable Quantity: 100 pounds 8.7 EPA Pollution Category: B 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed |
| 5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: Currently not available | 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Solid |
| 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent | 9.2 Molecular Weight: 110.11 9.3 Boiling Point at 1 atm: 545°F = 285°C = 558°K |
| 5.5 Polymerization: Not pertinent5.6 Inhibitor of Polymerization: Not pertinent | 9.4 Freezing Point: 338°F = 170°C = 443°K 9.5 Critical Temperature: Not pertinent |
| 6. WATER POLLUTION | 9.6 Critical Pressure: Not pertinent9.7 Specific Gravity: 1.33 at 20°C (solid) |
| 6.1 Aquatic Toxicity: 0.287 ppm/48 hr/goldfish/TL_//fresh water 6.2 Waterfowl Toxicity: Currently not available | 9.8 Liquid Surface Tension: Not pertinent 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent |
| 6.3 Biological Oxygen Demand (BOD): 53%, 5 days 25% (theo.), 0.5 days, as catechol | 9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 9.12 Latent Heat of Vaporization: Not pertinent |
| 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Not listed | 9.13 Heat of Combustion: −11,200 Btu/lb = −6,220 cal/g = −260 X 10 ⁵ J/kg 9.14 Heat of Decomposition: Not pertinent |
| | 9.15 Heat of Solution: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 58.84 cal/g |
| | 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available |
| NOTE | 5 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

HYDROQUINONE

| 9.20 SATURATED LIQUID DENSITY | | 9.21 LIQUID HEAT CAPACITY | | 9.22 LIQUID THERMAL CONDUCTIVITY | | 9.23 LIQUID VISCOSITY | |
|----------------------------------|--------------------------------------|------------------------------|---|-------------------------------------|---|----------------------------|-------------------|
| Temperature (degrees F) | Pounds per cubic foot | Temperature (degrees F) | British thermal unit per pound-F | Temperature (degrees F) | British thermal unit inch per hour-square foot-F | Temperature (degrees F) | Centipoise |
| | N O T | | N O T | | N O T | | N O T |
| | P E T I N E N T | | P E R T I N E N T | | P E R T I N E N T | | P E R T I N E N T |
| | | | | | | | |

| 9.24 SOLUBILITY IN WATER | | 9.25 SATURATED VAPOR PRESSURE | | 9.26 SATURATED VAPOR DENSITY | | 9.27 IDEAL GAS HEAT CAPACITY | |
|-----------------------------|-----------------------------------|----------------------------------|---------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------------|
| Temperature (degrees F) | Pounds per 100 pounds of water | Temperature (degrees F) | Pounds per square inch | Temperature (degrees F) | Pounds per cubic foot | Temperature (degrees F) | British thermal unit per pound-F |
| 68 | 7.000 | | N OT P E R T I N E N T | | N OT P E R T I N E N T | | N O T PERTINENT |
| | | | | | | | |
| | | | | | | | |