

**RESORCINOL****1033**  
May 2003

**CAS No: 108-46-3**  
RTECS No: VG9625000  
UN No: 2876  
EC No: 604-010-00-1

1,3-Dihydroxybenzene  
1,3-Benzenediol  
3-Hydroxyphenol  
Resorcin  
C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>  
Molecular mass: 110.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Combustible.	NO open flames.	Water spray, powder.
<b>EXPLOSION</b>		Prevent build-up of electrostatic charges (e.g., by grounding).	
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST! STRICT HYGIENE!</b>	
<b>Inhalation</b>	Abdominal pain. Blue lips or finger nails. Blue skin. Confusion. Convulsions. Cough. Dizziness. Headache. Nausea. Sore throat. Unconsciousness.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>Skin</b>	Redness. Pain.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
<b>Eyes</b>	Redness. Pain.	Safety goggles, face shield, or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>	(See Inhalation).	Do not eat, drink, or smoke during work.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give a slurry of activated charcoal in water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for harmful particles).	Xn Symbol N Symbol R: 22-36/38-50 S: (2-)26-61 UN Hazard Class: 6.1 UN Pack Group: III  Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	STORAGE
Transport Emergency Card: TEC (R)-61GT2-III NFPA Code: H; F1; R0	Separated from incompatible materials and food and feedstuffs. See Chemical Dangers.

### IMPORTANT DATA

**Physical State; Appearance**

WHITE CRYSTALS. TURNS PINK ON EXPOSURE TO AIR, LIGHT OR ON CONTACT WITH IRON.

**Physical dangers**

As a result of flow, agitation, etc., electrostatic charges can be generated.

**Chemical dangers**

Reacts with strong oxidants ammonia and amino compounds causing fire and explosion hazard.

**Occupational exposure limits**

TLV: 10 ppm as TWA; 20 ppm as STEL; A4; (ACGIH 2003).  
EU OEL: 10 ppm, 45 mg/m<sup>3</sup>, as TWA; (EU 2000).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

**Inhalation risk**

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

**Effects of short-term exposure**

The substance is irritating to the eyes, the skin and the respiratory tract. The substance may cause effects on the blood, resulting in formation of methaemoglobin. The effects may be delayed. Medical observation is indicated.

**Effects of long-term or repeated exposure**

In rare cases, repeated or prolonged contact may cause skin sensitization.

### PHYSICAL PROPERTIES

Boiling point: 280°C

Melting point: 110°C

Density: 1.28 g/cm<sup>3</sup>

Solubility in water, g/100 ml: 140

Vapour pressure, Pa at 20°C: 0.065

Flash point: 127°C c.c.

Auto-ignition temperature: 607°C

Explosive limits, vol% in air: 1.4-?

Octanol/water partition coefficient as log Pow: 0.79-0.93

### ENVIRONMENTAL DATA

The substance is harmful to aquatic organisms.

### NOTES

Depending on the degree of exposure, periodic medical examination is indicated.

Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. Do NOT take working clothes home.

### ADDITIONAL INFORMATION

**LEGAL NOTICE**

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information