Right to Know Hazardous Substance Fact Sheet

Emergency Responders Quick Reference

Common Name: **RESORCINOL**

Synonyms: 1,3-Dihydroxybenzene; 3-Hydroxyphenol; 1,3-Benzenediol
CAS No: 108-46-3
Molecular Formula: $C_6H_4(OH)_2$
RTK Substance No: 1634
Description: White, crystalline solid that turns pink on exposure to light and air

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health **1 - Fire** **0 - Reactivity** **DOT#:** UN 2876 **ERG Guide #:** 153 **Hazard Class:** 6.1 (Poison)	COMBUSTIBLE SOLID Use dry chemical, CO_2, alcohol-resistant foam or other foam extinguishing agents, as water may not be effective in fighting fires. POISONOUS GASES ARE PRODUCED IN FIRE. CONTAINERS MAY EXPLODE IN FIRE. Use water spray to keep fire-exposed containers cool.	**Resorcinol** may react explosively with NITRIC ACID. **Resorcinol** is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); ACIDS (such as HYDROCHLORIC, SULFURIC and ACETIC); ACID CHLORIDES; ACID ANHYDRIDES; IRON and IRON SALTS; ALBUMIN; CAMPHOR; URETHANE; MENTHOL; ACETANILIDE; and ANTIPYRINE. **Resorcinol** absorbs moisture from the air.

SPILL/LEAKS

Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up and place into sealed containers for disposal.

Cover *liquid* spills with dry lime, sand or soda ash and place into sealed containers for disposal.

DO NOT wash into sewer.

Resorcinol is harmful to aquatic life at very low concentrations.

PHYSICAL PROPERTIES

Flash Point:	261°F (127°C)
LEL:	1.4%
Auto Ignition Temp:	1,125°F (607°C)
Vapor Density:	3.79 (air = 1)
Vapor Pressure:	1 mm Hg at 227°F (108°C)
Specific Gravity:	1.2 (water = 1)
Water Solubility:	Soluble
Boiling Point:	531° to 536°F (277° to 280°C)
Melting Point:	228° to 232°F (109° to 111°C)
Ionization Potential:	8.63 eV
Molecular Weight:	110.18
pH:	5.2

EXPOSURE LIMITS

NIOSH: 45 mg/m^3 (10 ppm), 10-hr TWA; 90 mg/m^3 (20 ppm), STEL

ACGIH: 45 mg/m^3 (10 ppm), 8-hr TWA; 90 mg/m^3 (20 ppm), STEL

The Protective Action Criteria values are:
PAC-1 = 75 mg/m^3 PAC-2 = 75 mg/m^3
PAC-3 = 75 mg/m^3

PROTECTIVE EQUIPMENT

Gloves: Nitrile and Natural Rubber

Coveralls: Tyvek®

Respirator: >45 mg/m^3 - full facepiece APR with *Organic vapor cartridges* and *P100 prefilters*

>75 mg/m^3 - SCBA

HEALTH EFFECTS

Eyes: Irritation and burns

Skin: Irritation and burns

Inhalation: Nose, throat and lung irritation, with coughing, wheezing and shortness of breath

Headache, fatigue and blue color to the skin and lips (methemoglobinemia)

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn. Seek medical attention.

Quickly remove contaminated clothing and wash contaminated skin with large amounts of water.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer promptly to a medical facility.