1. IDENTIFICATION

Product identifier

Product code: R1005
Product Name: RESORCINOL, CRYSTALLINE POWDER, USP

Other means of identification

Synonyms:
1,3-Benzenediol
1,3-Dihydroxybenzene
3-Hydroxycyclohexadien-1-one
3-Hydroxyphenol
Benzene, 1,3-dihydroxy-
Benzene, m-dihydroxy-
C.I. 76505
C.I. Developer 4
C.I. Oxidation Base 31
Developer O
Developer R
Developer RS
Dihydroxybenzol
Durafur developer G
Fouramine RS
Fourrine 79
Fourrine EW
Nako TGG
Pelagol Grey RS
Pelagol RS
Phenol, m-hydroxy-
Resorcin
Resorcin
Resorcinol
Resorcinol
Resorcinolum
Resorzin
m-Benzenediol
m-Dihydroxybenzene
m-Dioxybenzene
m-Hydroquinone
m-Hydroxyphenol

CAS #: 108-46-3
RTECS # VG9625000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: In tanning; manufacturing resins, resin adhesives, hexylresorcinol, p-amino salicylic acid, explosives, and dyes; In rubber industry for tires and reinforced rubber products; wood adhesives; pharmaceuticals; cross-linking agent; a rubber tackifier; and cosmetic; In photography; chemical intermediate used in oxidation hair dyes; medication.
Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Toxic if swallowed
Causes serious eye damage
Causes skin irritation
Causes damage to organs through prolonged or repeated exposure

Hazardous not otherwise classified (HNOC)
Not Applicable

Other hazards
May be harmful in contact with skin

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray

Product code: R1005
Product name: RESORCINOL, CRYSTALLINE POWDER, USP
Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

Ingestion: Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
Causes serious eye irritation
Causes skin irritation
May cause digestive (gastrointestinal) tract irritation
Dyspnea (Shortness of breath and difficulty breathing)
Coughing and wheezing
May cause methemoglobinemia and cyanosis
Headache
Dizziness
Irritating to respiratory system
Nose and throat irritation

Indication of any immediate medical attention and special treatment needed
Notes to Physician: Treat symptomatically.

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Oxides.
Specific hazards: May be combustible at high temperatures. Explosive reaction with concentrated nitric acid.

Special Protective Actions for Firefighters
Specific Methods: No information available.
Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice

Product code: R1005
Product name: RESORCINOL, CRYSTALLINE POWDER, USP
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**
Hygroscopic. Protect from moisture. Protect from light. Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
Oxidizing agents
Acids
Bases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

### United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>None</td>
<td>10 ppm TWA 45 mg/m³ TWA 20 ppm STEL 90 mg/m³ STEL</td>
<td>20 ppm STEL 10 ppm TWA</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

### Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>10 ppm TWA 45 mg/m³ TWA 20 ppm STEL</td>
<td>10 ppm TWA 20 ppm STEL</td>
<td>20 ppm STEL</td>
<td>None</td>
</tr>
</tbody>
</table>

### Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>20 ppm STEL 90 mg/m³ STEL 10 ppm TWA 45 mg/m³ TWA</td>
<td>10 ppm TWA 45 mg/m³ TWA 20 ppm STEL 90 mg/m³ STEL</td>
</tr>
</tbody>
</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

### Personal Protective Equipment

**Product code:** R1005  
**Product name:** RESORCINOL, CRYSTALLINE POWDER, USP
Eye protection: Goggles
Skin and body protection: Long sleeved clothing
                      Chemical resistant apron
                      Gloves
Respiratory protection: Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor: Characteristic.</td>
<td>Taste Sweet with bitter after taste.</td>
<td>Formula: C6H6O2</td>
</tr>
<tr>
<td>Molecular/Formula weight: 110.11</td>
<td>Flammability: No information available</td>
<td>Flash point (°C): 127.22°C</td>
</tr>
<tr>
<td>Flashpoint (°C/°F): 127.2°C/ 261°F</td>
<td>Flash Point Tested according to: Closed cup</td>
<td>Autoignition Temperature (°C/°F): 607.78°C/ 1126°F</td>
</tr>
<tr>
<td>Lower Explosion Limit (%): No information available</td>
<td>Upper Explosion Limit (%): No information available</td>
<td>Melting point/range(°C/°F): 110°C/ 230°F</td>
</tr>
<tr>
<td>Decomposition temperature(°C/°F): No information available</td>
<td>Boiling point/range(°C/°F): 277-281°C/ 530.6-537.8°F</td>
<td>Bulk density: No information available</td>
</tr>
<tr>
<td>Density (g/cm3): No information available</td>
<td>Specific gravity: 1.272</td>
<td>pH: 5.2</td>
</tr>
<tr>
<td>Vapor pressure @ 20°C (kPa): No information available</td>
<td>Evaporation rate: No information available</td>
<td>Vapor density: 3.8</td>
</tr>
<tr>
<td>VOC content (g/L): No information available</td>
<td>Odor threshold (ppm): No information available</td>
<td>Partition coefficient (n-octanol/water): 0.8</td>
</tr>
<tr>
<td>Viscosity: No information available</td>
<td>Miscibility: No information available</td>
<td>Solubility: Easily soluble in cold water</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Easily soluble in diethyl ether</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soluble in Alcohol</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soluble in Acetic acid</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soluble in Dimethyl Sulfoxide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Slightly soluble in chloroform</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Freely soluble in glycerol</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: Reactive with strong oxidizing agents
            Explosive reaction with concentrated nitric acid
            Reactive with acetaldehyde, albumin, alkalies, antipyrine, camphor, ferri salts, menthol, spirit nitrous ether, urethane, periodate
            Reacts with strong bases

Product code: R1005  Product name: RESORCINOL, CRYSTALLINE POWDER, USP
Chemical stability


Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Oxidizing agents
Acids
Bases

Hazardous decomposition products: Carbon oxides.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Eyes. Ingestion. Inhalation.

Acute Toxicity

Component Information

Resorcinol
CAS-No. 108-46-3

LD50/oral/rat = 202 mg/kg Oral LD50 Rat
LD50/oral/mouse = 200 mg/kg
LD50/dermal/rabbit = 3360 mg/kg Dermal LD50 Rabbit
LD50/dermal/rat = No information available
LC50/inhalation/rat = 21.3 mg/L Inhalation LC50 Rat 1 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat = Value - Acute Tox Oral = 202 mg/kg
LD50/oral/mouse = Value - Acute Tox Oral = 200 mg/kg
LD50/dermal/rabbit = VALUE - Acute Tox Dermal = 3360 mg/kg
LD50/dermal/rat = VALUE - Acute Tox Dermal = No information available
LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = 21.3 mg/l (1-hr)

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation.
Eye Contact: Causes serious eye irritation.
Inhalation Causes respiratory tract and mucous membrane irritation.
Ingestion Toxic if swallowed. May cause digestive (gastrointestinal) tract irritation. It may affect the blood (methemoglobinemia-carboxyhemoglobin), respiration (cyanosis, dyspnea), behavior/central nervous system (convulsions, excitement, tetany, coma), cardiovascular system (hypotension), liver, and kidneys. May cause methemoglobinemia, (the formation of methemoglobin in the blood which causes deficient oxygenation of the blood due to decreased available hemoglobin). Signs and symptoms of methemoglobinemia include shortness of breath, cyanosis (a bluish discoloration of the skin, lips, mucous membranes), mental status changes such as headache, mental impairment, fatigue, muscular weakness, exercise intolerance, lightheadedness, dizziness, incoordination, seizures, and loss of consciousness. Arterial blood with elevated methemoglobin levels has a characteristic chocolate-brown color as compared to normal bright red oxygen containing arterial blood. Severe methemoglobinemia is characterized by bradycardia or tachydardia (slow or fast heart beat), dysrhythmias, seizures, coma and death.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Skin: Prolonged or repeated skin contact may cause dermatitis, an allergic skin reaction. Ingestion: Prolonged or repeated ingestion may affect the endocrine system (adrenal gland, thymus, thyroid, (thyroid hypofunction, goiter)), liver, kidneys, and metabolism (weight loss).

Sensitization: No information available.

Mutagenic Effects: May affect genetic material
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic effects: Not classifiable as to its carcinogenicity to humans.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Group 3 - Not Classifiable - Monograph 71 (1999)</td>
<td>A4 Not Classifiable as a Human Carcinogen</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
</tr>
</tbody>
</table>

Product code: R1005
Product name: RESORCINOL, CRYSTALLINE POWDER, USP
Reproductive toxicity
No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity
STOT - single exposure: No information available.
STOT - repeated exposure: Causes damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity effects: Aquatic environment.

Resorcinol - 108-46-3
Freshwater Algae Data: 1.1 - 72 mg/L EC50 Chlorella pyrenoidosa 72 h
100 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1 53.4 mg/L LC50
Pimephales promelas 96 h 1 36 - 100 mg/L LC50 Pimephales promelas 96 h
static 1 100 mg/L LC50 Pimephales promelas 96 h flow-through 1 34.7 mg/L LC50
Leuciscus idus 96 h static 1

Water Flea Data: 78 mg/L LC50 Daphnia magna 48 h

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>U201</td>
</tr>
</tbody>
</table>

Product code: R1005
Product name: RESORCINOL, CRYSTALLINE POWDER, USP
## 14. TRANSPORT INFORMATION

**DOT**
<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Resorcinol</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Class</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>Emergency Response Guide Number</td>
<td>153</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No data available</td>
</tr>
<tr>
<td>DOT RQ (lbs):</td>
<td>No information available</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>IB8, IP3, T1, TP33</td>
</tr>
<tr>
<td>Symbol(s):</td>
<td>[DOT]: (R5) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 5000 pounds (2270 Kilograms).</td>
</tr>
<tr>
<td>Description:</td>
<td>UN2876, Resorcinol, 6.1, III</td>
</tr>
</tbody>
</table>

**TDG (Canada)**
<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Resorcinol</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No Information available</td>
</tr>
<tr>
<td>Description:</td>
<td>UN2876, Resorcinol, 6.1, III</td>
</tr>
</tbody>
</table>

**ADR**
<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Resorcinol</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No information available</td>
</tr>
<tr>
<td>Description:</td>
<td>UN2876, Resorcinol, 6.1, III, ENVIRONMENTALLY HAZARDOUS</td>
</tr>
</tbody>
</table>

**IMO / IMDG**
<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Resorcinol</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No information available</td>
</tr>
<tr>
<td>EMS:</td>
<td>F-A</td>
</tr>
<tr>
<td>Description:</td>
<td>UN2876, Resorcinol, 6.1, III, Marine pollutant</td>
</tr>
</tbody>
</table>

**RID**
<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Resorcinol</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>III</td>
</tr>
<tr>
<td>Description:</td>
<td>UN2876, Resorcinol, 6.1, III, ENVIRONMENTALLY HAZARDOUS</td>
</tr>
</tbody>
</table>

**ICAO**
<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Resorcinol</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Product code:** R1005  
**Product name:** RESORCINOL, CRYSTALLINE POWDER, USP
Packing Group: III
Description: UN2876, Resorcinol, 6.1, III

IATA
UN-No: UN2876
Proper Shipping Name: Resorcinol
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 6L
Special Provisions: No information available
Description: UN2876, Resorcinol, 6.1, III

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
</table>

U.S. Regulations

Resorcinol

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1634
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List: Present
Minnesota - Hazardous Substance List: Present
New York Release Reporting - List of Hazardous Substances: 5000 lb RQ
1 lb RQ
Louisiana Reportable Quantity List for Pollutants: 5000lbfinal RQ
2270kgfinal RQ
California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 177.1210


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>5000 lb final RQ 2270 kg final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Product code: R1005
Product name: RESORCINOL,
CRYSTALLINE POWDER, USP
## U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

## Canada

### WHIMIS 2015 - GHS Classifications

**WHIMIS 2015 Hazard Classification Information:**

- **Component:** Resorcinol
- **CAS-No.:** 108-46-3 (100)

**WHIMIS 2015 Hazard Classification**

- Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
- Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Skin sensitizers - Category 1: H317 May cause allergic skin reaction.

### Canada Hazardous Products Regulation

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

### WHIMIS 1988 Hazard Class

- D1B Toxic materials
- D2B Toxic materials

### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>WHIMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>1%</td>
</tr>
</tbody>
</table>

#### Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### EU Classification

#### EU GHS - SV - CLP 1272/2008

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation.; Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation.; Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life.604-010-00-1</td>
</tr>
</tbody>
</table>

**EU - CLP (1272/2008)**

**Product code:** R1005  **Product name:** RESORCINOL, CRYSTALLINE POWDER, USP
R-phrase(s)
R22 - Harmful if swallowed.
R50 - Very toxic to aquatic organisms.
R36/38 - Irritating to eyes and skin.

S-phrase(s)
S 2 - Keep out of the reach of children.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resorcinol</td>
<td>108-46-3</td>
<td>Xn; R22</td>
<td>10%&lt; C Xn; R22</td>
<td>S: 2-26-61</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Xi; R36/38</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>N; R50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful.
Xi - Irritant.
N - Dangerous for the environment.

16. OTHER INFORMATION

Preparation Date: 06/10/2015
Revision Date: 06/28/2018
Prepared by: Sonia Owen

Disclaimer:
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet