



SIGMA-ALDRICH

15  
**Material Safety Data Sheet**

Date Printed: 09/03/2004  
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Version 1.20

**Section 1 - Product and Company Information**

**Product Name** 4-(2-Pyridylazo)resorcinol, 98%  
**Product Number** 323209  
**Brand** Aldrich Chemical  
**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052  
**Emergency Phone:** 414 273 3850 Ext. 5996

**Section 2 - Composition/Information on Ingredient**

| <u>Substance Name</u>  | <u>CAS #</u> | <u>SARA 313</u> | <u>EC no</u> | <u>Annex I Index Number</u> |
|--|--------------|-----------------|--------------|-----------------------------|
| 4-(2-PYRIDYLAZO)-RESORCINOL MONOSODIUMSALT MONOHYDRATE (PAR) 99% | 1141-59-9    | No              | 214-528-6    |                             |
| <b>Formula</b>   | C11H9N3O2    |                 |              |                             |
| <b>Synonyms</b>  |              |                 |              |                             |

**Section 3 - Hazards Identification**

**Emergency Overview**  
Irritant.  
Irritating to eyes, respiratory system and skin.  
For additional information on toxicity, please refer to Section 11.

**Section 4 - First Aid Measures**

**Oral Exposure**  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**  
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure**  
In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure**  
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

**Section 5 - Fire Fighting Measures**

**Autoignition Temp:** N/A

**Extinguishing Media**  
**Suitable**  
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

**Firefighting**  
**Protective Equipment**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
**Specific Hazard(s)**  
Emits toxic fumes under fire conditions.

**Exposure Hazard(s)**  
**Material**  
Irritant.

**Section 6 - Accidental Release Measures**

**Procedure(s) of Personal Precaution(s)**  
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning Up**  
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**Section 7 - Handling and Storage**

**Handling**  
**User Exposure**  
Do not breathe dust. Avoid contact with eyes, skin, and clothing.

**Storage**  
**Suitable**  
Keep tightly closed. Store in a cool dry place.

**Section 8 - Exposure Controls / PPE**

**Engineering Controls**  
Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment**  
**Respiratory**  
Government approved respirator.  
**Hand**  
Compatible chemical-resistant gloves.  
**Eye**  
Chemical safety goggles.

**General Hygiene Measures**  
Wash contaminated clothing before reuse. Wash thoroughly after handling.

**Section 9 - Physical/Chemical Properties**

**Appearance** **Form**  
Powder

**Molecular Weight:** 215.21 AMU

pH N/A  
BP/BP Range N/A  
MP/MP Range 195 °C  
Freezing Point N/A  
Vapor Pressure N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A  
Explosion Limits N/A

Flammability N/A  
Autoignition Temp N/A  
Solubility N/A

N/A = not available

#### Section 10 - Stability and Reactivity

##### Stability

**Materials to Avoid**  
Strong oxidizing agents.

##### Hazardous Decomposition Products

**Hazardous Decomposition Products**  
Carbon monoxide, Carbon dioxide, Nitrogen oxides.

#### Section 11 - Toxicological Information

##### Route of Exposure

**Inhalation**  
Material is irritating to mucous membranes and upper respiratory tract.

**Multiple Routes**  
May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation.

##### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** N/A

#### Section 12 - Ecological Information

No data available.

#### Section 13 - Disposal Considerations

##### Appropriate Method of Disposal of Substance or Preparation

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

Observe all federal, state, and local environmental regulations.

#### Section 14 - Transport Information

##### DOT

**Proper Shipping Name:** None  
**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

##### IATA

**Non-Hazardous for Air Transport:** Non-hazardous for air transport.

#### Section 15 - Regulatory Information

##### EU Additional Classification

**Symbol of Danger:** Xi

**Indication of Danger**

Irritant.

**Risk Statements** R: 36/37/38

Irritating to eyes, respiratory system and skin.

**Safety Statements** S: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

##### US Classification and Label Text

**Indication of Danger**

Irritant.

**Risk Statements**

Irritating to eyes, respiratory system and skin.

**Safety Statements**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

##### United States Regulatory Information

**SARA Listed:** No

##### Canada Regulatory Information

**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** No

**NDSL:** Yes

#### Section 16 - Other Information

##### Disclaimer

For R&D use only. Not for drug, household or other uses.

##### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.