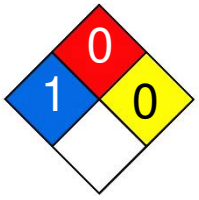
# Material Safety Data Sheets




Revision 2

## 1. IDENTIFICATION

| | |
|---|---|
| **Product Name** | **Phenol red** |
| **Other Names** | phenolsulfonphthalein |
| **Uses** | No Data Available |
| **Chemical Family** | No Data Available |
| **Chemical Formula** | C19H14O5S |
| **Chemical Name** | No Data Available |
| **Product Description** | No Data Available |
| **Company** | **Arman sina.co** |
| **Contact Information** | info@armansina.com<br>**www.armansina.com** |

## 2. HAZARD IDENTIFICATION

| | | |
|---|---|---|
| **Hazard Categories** | Skin irritation, (Category 2) | H315: Causes skin irritation. |
| | Specific target organ toxicity - single exposure, (Category 3), Respiratory system | H335: May cause respiratory irritation. |
| **Signal Word** | Warning | |

**Hazard Statements**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| Precautionary Statements | |
| P261 | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. |
| P264 | Wash skin thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P304 + P340 + P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. |

**Symbol**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

***Ingredients***

| Chemical Entity | Formula | CAS Number | Proportion |
|---|---|---|---|
| **Phenol red** | C19H14O5S | 143-74-8 | <= 100 % |

## 4. FIRST AID MEASURES

**Swallowed** After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

**Eye** After eye contact: rinse out with plenty of water. Remove contact lenses.

**Skin** In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**Inhaled** After inhalation: fresh air.

**Advice to Doctor** Consult a doctor in case of discomfort showing the SDS for the product.

## 5. FIRE FIGHTING MEASURES

**General Measures** Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Flammability Conditions** No Data Available

**Extinguishing Media** Suitable extinguishing media
Water Foam Carbon dioxide (CO2) Dry powder

**Fire and Explosion Hazard** Fire may cause evolution of Sulfur oxides Development of hazardous combustion gases or vapours possible in the event of fire.

**Hazardous Products of Combustion** Carbon oxides Sulfur oxides Combustible.

**Special Fire Fighting Instructions** Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**Personal Protective Equipment** No Data Available

## 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **General Response Procedure** | No Data Available |
| **Clean Up Procedures** | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. |
| **Containment** | No Data Available |
| **Decontamination** | No Data Available |
| **Environmental Precautionary Measures** | Do not let product enter drains. |
| **Evacuation Criteria** | No Data Available |
| **Personal Precautionary Measures.** | Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. |

## 7. HANDLING AND STORAGE

| | |
|---|---|
| **Handling** | No Data Available |
| **Storage** | No Data Available |
| **Container** | Keep containers tightly closed, Dry |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|---|
| **General** | Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously. |
| **Exposure Limits** | No Data Available |
| **Biological Limits** | No Data Available |
| **Engineering Measures** | Change contaminated clothing. Wash hands after working with substance. |
| **Personal Protection Equipment** | Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Eye/face protection Eye glasses with side protection DIN-/EN-Norms EN 166 Recommendation: VWR 111-0432 Skin protection When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms EN ISO 374 In the case of wanting to use the gloves again, clean them before taking off and air them well. Material: Nitrile rubber<br>Minimum layer thickness: 0,11 mm<br>Break through time: 480 min<br>Material tested:KCL 741 Dermatril® L<br>This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).<br>Splash contact<br>Material: Nitrile rubber<br>Minimum layer thickness: 0,11 mm<br>Break through time: 480 min<br>Material tested:KCL 741 Dermatril® L<br>Respiratory protection<br>Respiratory protection necessary at: aerosol or mist formation Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (EN 136/140) Recommendation: Suitable material: ABEK2P3 |
| **Special Hazards Precaustions** | No Data Available |
| **Work Hygienic Practices** | No Data Available |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical State** | solid |
| **Appearance** | solid |
| **Odour** | No Data Available |
| **Colour** | red |
| **pH** | No Data Available |
| **Vapour Pressure** | No Data Available |
| **Relative Vapour Density** | No Data Available |
| **Boiling Point** | No Data Available |
| **Melting Point** | Melting point/ range: > 300 °C |
| **Freezing Point** | No Data Available |
| **Solubility** | Water solubility: 0,77 g/l at 100 °C |
| **Specific Gravity** | No Data Available |
| **Flash Point** | No Data Available |
| **Auto Ignition Temp** | No information available. |
| **Evaporation Rate** | No Data Available |
| **Bulk Density** | 200 - 300 kg/m3 |
| **Corrosion Rate** | No Data Available |
| **Decomposition Temperature** | No Data Available |
| **Density** | No Data Available |
| **Specific Heat** | No Data Available |
| **Molecular Weight** | 269.31 g/mol |
| **Net Propellant Weight** | No Data Available |
| **Octanol Water Coefficient** | No Data Available |
| **Particle Size** | No Data Available |
| **Partition Coefficient** | No Data Available |
| **Saturated Vapour Concentration** | No Data Available |
| **Vapour Temperature** | No Data Available |
| **Viscosity** | No Data Available |
| **Volatile Percent** | No Data Available |
| **VOC Volume** | No Data Available |
| **Additional Characteristics** | No information available. |
| **Potential for Dust Explosion** | No Data Available |
| **Fast or Intensely Burning Characteristics** | No information available. |
| **Flame Propagation or Burning Rate of Solid Materials** | No information available. |
| **Non-Flammables That Could Contribute Unusual Hazards to a Fire** | No information available. |
| **Properties That May Initiate or Contribute to Fire Intensity** | No information available. |
| **Reactions That Release Gases or Vapours** | No information available. |
| **Release of Invisible Flammable Vapours and Gases** | No information available.<br>No information available. |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **General Information** | Reactivity The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. |
| **Chemical Stability** | The product is chemically stable under standard ambient conditions (room temperature) . |
| **Conditions to Avoid** | No Data Available |
| **Materials to Avoid** | Strong oxidizing agents |
| **Hazardous Decomposition Products** | No Data Available |
| **Hazardous Polymerisation** | No Data Available |

## 11. TOXICOLOGICAL INFORMATION

**General Information** No Data Available

***Acute***

**Acute toxicity**

No Data Available

Oral: Harmful if swallowed.

Inhalation: No data available

Dermal: No data available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

| **Toxicity** |
|---|
| No Data Available |

| | |
|---|---|
| **Persistence/Degradability** | No Data Available |
| **Mobility** | No Data Available |
| **Environmental Fate** | No Data Available |
| **Bioaccumulation Potential** | No Data Available |
| **Environmental Impact** | No Data Available |

## 13. DISPOSAL CONSIDERATIONS

| | |
|---|---|
| **General Information** | No Data Available<br>. |
| **Special Precautions for Land Fill** | No Data Available |

## 14. TRANSPORT INFORMATION

### Land Transport

| | |
|---|---|
| **Proper Shipping Name** | ***Phenol red*** |
| **Class** | No Data Available |
| **Subsidiary Risk(s)** | No Data Available |
| **EPG** | No Data Available |
| **UN Number** | No Data Available |
| **Hazchem** | No Data Available |
| **Pack Group** | No Data Available |
| **Special Provision** | No Data Available |

### Sea Transport

| | |
|---|---|
| **Proper Shipping Name** | ***Phenol red*** |
| **Class** | No Data Available |
| **Subsidiary Risk(s)** | No Data Available |
| **UN Number** | No Data Available |
| **Hazchem** | No Data Available |
| **Pack Group** | No Data Available |
| **Special Provision** | No Data Available |
| **EMS** | No Data Available |
| **Marine Pollutant** | No Data Available |

### Air Transport

| | |
|---|---|
| **Proper Shipping Name** | ***Phenol red*** |
| **Class** | No Data Available |
| **Subsidiary Risk(s)** | No Data Available |
| **UN Number** | No Data Available |
| **Hazchem** | No Data Available |
| **Pack Group** | No Data Available |
| **Special Provision** | No Data Available |

## 15. OTHER INFORMATION

**Revision** 2

**Key/Legend**

**< Less Than**
**> Greater Than**
**atm Atmosphere**
**CAS Chemical Abstracts Service (Registry Number)**
**cm² Square Centimetres**
**CO2 Carbon Dioxide**
**COD Chemical Oxygen Demand**
**deg C (° C) Degrees Celcius**
**deg F (° F) Degrees Farenheit**
**g Grams**
**g/cm³ Grams per Cubic Centimetre**
**g/l Grams per Litre**
**HSNO Hazardous Substance and New Organism**
**IDLH Immediately Dangerous to Life and Health**
**immiscible Liquids are insoluable in each other.**
**inHg Inch of Mercury**
**inH2O Inch of Water**
**K Kelvin**
**kg Kilogram**
**kg/m³ Kilograms per Cubic Metre**
**lb Pound**
**LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50%** (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
**LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one** half) of a group of test animals.
**ltr or L Litre**
**m³ Cubic Metre**
**mbar Millibar**
**mg Milligram**
**mg/24H Milligrams per 24 Hours**
**mg/kg Milligrams per Kilogram**
**mg/m³ Milligrams per Cubic Metre**
**Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.**
**mm Millimetre**
**mmH2O Millimetres of Water**
**mPa.s Millipascals per Second**
**N/A Not Applicable**
**NIOSH National Institute for Occupational Safety and Health**
**NOHSC National Occupational Heath and Safety Commission**
**OECD Organisation for Economic Co-operation and Development**
**Oz Ounce**
**PEL Permissible Exposure Limit**
**Pa Pascal**
**ppb Parts per Billion**
**ppm Parts per Million**
**ppm/2h Parts per Million per 2 Hours**
**ppm/6h Parts per Million per 6 Hours**
**psi Pounds per Square Inch**
**R Rankine**
**RCP Reciprocal Calculation Procedure**
**STEL Short Term Exposure Limit**
**TLV Threshold Limit Value**
**tne Tonne**
**TWA Time Weighted Average**
**ug/24H Micrograms per 24 Hours**
**UN United Nations**
**wt Weight**