

## SAFETY DATA SHEET

Preparation Date: 06/25/2015

Revision Date: 06/25/2015

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

Product code: AL200  
Product Name: ALIZARIN RED S

#### Other means of identification

## 1. IDENTIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms:</b> | 2-Anthraquinonesulfonic acid, 3,4-dihydroxy-, sodium salt<br>9,10-Dihydro-3,4-dihydroxy-9,10-dioxo-2-anthracenesulfonic acid monosodium salt<br>Acid Red Alizarine<br>Ahcoquinone Red S<br>Alizarin Carmine (biological stain)<br>Alizarin S<br>Alizarin-3-sulfonate sodium salt<br>Alizarine Carmine (Biological stain)<br>Alizarine Carmine Indicator<br>Alizarine Red A<br>Alizarine Red AS<br>Alizarine Red For Wool<br>Alizarine Red Indicator<br>Alizarine Red S (biological stain)<br>Alizarine Red S sodium salt<br>Alizarine Red SW<br>Alizarine Red SZ<br>Alizarine Red W<br>Alizarine Red WA<br>Alizarine Red WS<br>Alizarine S<br>Alizarine S Extra Conc. A Export<br>Alizarine S Extra Pure A<br>Alizarinrot-S [German]<br>Alizarinsulfonate<br>Calcochrome Alizarine Red SC<br>Carnelio Rubine Lake<br>Chrome Red Alizarine<br>Diamond Red W<br>Ext D and C Red No. 7<br>Fenakrom Red W<br>Mitsui Alizarine Red S<br>Mordant Red 3<br>Oxanal Fast Red SW<br>Sodium 3,4-dihydroxyanthraquinone-2-sulfonate<br>Sodium alizarin-3-sulfonate<br>Sodium alizarinesulfonate<br>2-Anthracenesulfonic acid, 9,10-dihydro-3,4-dihydroxy-9,10-dioxo-, monosodium salt<br>2-Anthracenesulfonic acid, 9,10-dihydro-3,4-dihydroxy-9,10-dioxo-, sodium salt (1:1)<br>Alizarin sulfonatesodium<br>3,4-Dihydroxy-9,10-dioxo-2-anthracenesulfonic acid sodium salt<br>Alizarin Red, water soluble<br>Alizarin sodium monosulfonate<br>Alizarinsulfonic acid sodium salt |
| <b>CAS #:</b>    | 130-22-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RTECS #</b>   | CB1095300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>CI#:</b>      | Not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### Recommended use of the chemical and restrictions on use

|                             |                          |
|-----------------------------|--------------------------|
| <b>Recommended use:</b>     | Dyes.                    |
| <b>Uses advised against</b> | 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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                  |             |
|--------------------------------------------------|-------------|
| Skin corrosion/irritation                        | Category 2  |
| Serious eye damage/eye irritation                | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3  |

### Label elements

#### **Warning**

#### **Hazard statements**

Causes serious eye irritation

Causes skin irritation

May cause respiratory irritation



#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other hazards**

Not available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear protective gloves

Wear eye/face protection

#### **Precautionary Statements - Response**

*Specific treatment (see .? on this label)*

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components                 | CAS-No.  | Weight % | Trade Secret |
|----------------------------|----------|----------|--------------|
| Alizarin Red S<br>130-22-3 | 130-22-3 | 100      | *            |

### 4. FIRST AID MEASURES

#### First aid measures

##### **General Advice:**

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126).

##### **Skin Contact:**

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

##### **Eye Contact:**

Flush eye 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. Get medical attention.

##### **Ingestion:**

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### Most important symptoms and effects, both acute and delayed

##### **Symptoms**

Causes serious eye irritation. Causes skin irritation. May cause irritation of respiratory tract.

#### 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 (CO<sub>2</sub>). Water spray. Foam.

##### **Unsuitable Extinguishing Media:**

No information available.

#### Specific hazards arising from the chemical

##### **Hazardous Combustion Products:**

Carbon oxides. Metallic oxides

##### **Specific hazards:**

May be combustible at high temperatures  
May be ignited by heat, sparks or flames

#### 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. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Avoid breathing dust. Avoid dust formation. Remove all sources of ignition. All equipment used when handling the product must be grounded.

**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 powder spill with plastic sheet or tarp to minimize 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. All equipment used when handling the product must be grounded.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapours/dust. Do not ingest. Do not smoke. 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:**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

| Components                 | OSHA | NIOSH | ACGIH | AIHA WHEEL |
|----------------------------|------|-------|-------|------------|
| Alizarin Red S<br>130-22-3 | None | None  | None  | None       |

##### **Canada**

| Components                 | Alberta | British Columbia | Ontario | Quebec |
|----------------------------|---------|------------------|---------|--------|
| Alizarin Red S<br>130-22-3 | None    | None             | None    | None   |

##### **Australia and Mexico**

| Components | Australia | Mexico |
|------------|-----------|--------|
|------------|-----------|--------|

|                            |      |      |
|----------------------------|------|------|
| Alizarin Red S<br>130-22-3 | None | None |
|----------------------------|------|------|

### 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

**Eye protection:** Safety glasses with side-shields

**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

|                                                                 |                                                               |                                                                             |
|-----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Physical state:</b><br>Solid.                                | <b>Appearance:</b><br>Powder.                                 | <b>Color:</b><br>Dark red.                                                  |
| <b>Odor:</b><br>Odorless.                                       | <b>Taste</b><br>No information available                      | <b>Molecular/Formula weight:</b><br>360.28                                  |
| <b>Formula:</b><br>C14H7O&SNa-H2O                               | <b>Flammability:</b><br>No information available              | <b>Flash point (°C):</b><br>No data available                               |
| <b>Flashpoint (°C/°F):</b><br>No information available.         | <b>Flash Point Tested according to:</b><br>Not available      | <b>Autoignition Temperature (°C/°F):</b><br>No information available        |
| <b>Lower Explosion Limit (%):</b><br>No information available   | <b>Upper Explosion Limit (%):</b><br>No information available | <b>pH:</b><br>No information available                                      |
| <b>Melting point/range(°C/°F):</b><br>287°C/ 548.6°F            | <b>Boiling point/range(°C/°F):</b><br>430°C/ 806°F            | <b>Decomposition temperature(°C/°F):</b><br>No information available        |
| <b>Bulk density:</b><br>No information available                | <b>Specific gravity:</b><br>No information available          | <b>Density (g/cm3):</b><br>No information available                         |
| <b>Vapor pressure @ 20°C (kPa):</b><br>No information available | <b>Evaporation rate:</b><br>No information available          | <b>Vapor density:</b><br>No information available                           |
| <b>VOC content (g/L):</b><br>No information available           | <b>Odor threshold (ppm):</b><br>No information available      | <b>Partition coefficient (n-octanol/water):</b><br>No information available |
| <b>Viscosity:</b><br>No information available                   | <b>Miscibility:</b><br>No information available               | <b>Solubility:</b><br>Soluble in Water                                      |

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents

**Chemical stability**

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents.

**Hazardous decomposition products:** Carbon oxides. Metallic oxides.

**Other Information**

**Corrosivity:** Non-corrosive in the presence of glass

**Special Remarks on Corrosivity:** No information available

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Principal Routes of Exposure:**

Eyes. Ingestion.

**Acute Toxicity****Component Information**

*Alizarin Red S - 130-22-3*

**LD50/oral/rat** = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rat** = No information available

**LD50/dermal/rabbit** = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = 70mg/kg intrav. LD50 Mouse

**Product Information**

**LD50/oral/rat** =

**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =

**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal** = No information available

**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** = No information available

**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** May cause respiratory irritation.  
**Ingestion** May be harmful if swallowed.

**Aspiration hazard** No information available

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

**Chronic Toxicity** No information available

**Sensitization:** No information available

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic

| Components     | IARC       | ACGIH - Carcinogens | NTP        | OSHA HCS - Carcinogens | Australia - Prohibited Carcinogenic Substances | Australia - Notifiable Carcinogenic Substances |
|----------------|------------|---------------------|------------|------------------------|------------------------------------------------|------------------------------------------------|
| Alizarin Red S | Not listed | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |

**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** No information available  
**Target Organs:** No information available

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

**Ecotoxicity effects:** No data available.

**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

| Components     | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|----------------|------------------------|------------------------|------------------------|------------------------|
| Alizarin Red S | None                   | None                   | None                   | None                   |

### 14. TRANSPORT INFORMATION

**DOT**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** None  
**ERG No:** No information available  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available

**TDG (Canada)**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available

**ADR**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

**IMO / IMDG**

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant** No information available  
**MFAG:** No information available

## 14. TRANSPORT INFORMATION

Maximum Quantity: No information available

### RID

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: No information available  
Classification Code: No information available  
Description: No information available

### ICAO

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: No information available  
Description: No information available

### IATA

UN-No: Not Regulated  
Proper Shipping Name: No information available  
Hazard Class: No information available  
Subsidiary Risk: No information available  
Packing Group: No information available  
Description: No information available

## 15. REGULATORY INFORMATION

### International Inventories

| Components     | U.S. TSCA | KOREA KECL       | Philippines (PICCS) | Japan ENCS       | CHINA   | Australia (AICS) | EINECS-No.        |
|----------------|-----------|------------------|---------------------|------------------|---------|------------------|-------------------|
| Alizarin Red S | Present   | Present KE-07785 | Present             | Present (5)-2061 | Present | Present          | Present 204-981-8 |

### U.S. Regulations

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

##### 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)

| Components     | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|----------------|------------|------------------------|----------------------------|-------------------------------|
| Alizarin Red S | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

### CERCLA/SARA

| Components     | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting <i>de minimis</i> |
|----------------|---------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------|-------------------------------------------|
| Alizarin Red S | None                                                          | None                                                | None                                               | None                            | None                                      |

## U.S. TSCA

| Components     | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|----------------|-----------------------------------------------------------------------|----------------------------------------|
| Alizarin Red S | Not Applicable                                                        | Not Applicable                         |

## Canada

### WHMIS hazard class:

Non-controlled

### 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.

## Inventory

| Components     | Canada (DSL) | Canada (NDSL) |
|----------------|--------------|---------------|
| Alizarin Red S | Present      | Not Listed    |

| Components     | CEPA Schedule I - Toxic Substances | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
|----------------|------------------------------------|-------------------------------------------------------------|
| Alizarin Red S | Not listed                         | Not listed                                                  |

## EU Classification

### R-phrase(s)

R36 - Irritating to eyes.

### S -phrase(s)

none

| Components     | Classification | Concentration Limits: | Safety Phrases |
|----------------|----------------|-----------------------|----------------|
| Alizarin Red S |                | No information        |                |

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

### Indication of danger:

Xi - Irritant.



## 16. OTHER INFORMATION

**Preparation Date:** 06/25/2015  
**Revision Date:** 06/25/2015  
**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**