

## Material Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** Alizarin Red S, Indicator

**Product Code**

AX0490

**Manufacturer**

EMD Chemicals Inc.  
P.O. Box 70  
480 Democrat Road  
Gibbstown, N.J. 08027  
Prior to January 1, 2003 EMD Chemicals was  
EM Science, a Division of EM Industries, Inc.

**Effective Date** 12/28/2001

**For More Information Call**

856-423-6300 Technical Service  
Monday-Friday: 8:00 AM - 5:00 PM

**In Case of Emergency Call**

800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (Canada)  
24 Hours/Day: 7 Days/Week

**Synonym**

MORDANT RED 3

**Material Uses**

Analytical reagent.

**Chemical**

Anthraquinone derivative.

**Family**

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### Section 2. Composition and Information on Ingredients

**Component**

**CAS #**

**% by Weight**

ALIZARIN RED S

130-22-3

100

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### Section 3. Hazards Identification

**Physical State and Appearance**

Solid. (Powder.)

**Emergency Overview**

CAUTION!

Handling care generally in keeping with safe laboratory practices is recommended.

**Routes of Entry**

Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Potential Acute Health Effects**

**Eyes** No known acute effects of this product resulting from eye contact.

**Skin** No known acute effects of this product resulting from skin contact.

**Inhalation** No known acute effects of this product resulting from inhalation.

**Ingestion** No known acute effects of this product resulting from ingestion.

**Potential Chronic Health Effects**

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

**Medical Conditions**

Additional information See Toxicological Information (section 11)

**Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

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### Section 4. First Aid Measures

**Eye Contact**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Skin Contact**

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Inhalation**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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### Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	Non-flammable.
<b>Auto-ignition Temperature</b>	Not applicable.
<b>Flash Points</b>	Not applicable.
<b>Flammable Limits</b>	Not applicable.
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence of Various Substances</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances</b>	<b>Risks of explosion of the product in presence of static discharge:</b> No.
<b>Fire Fighting Media and Instructions</b>	<b>Risks of explosion of the product in presence of mechanical impact:</b> No.
<b>Protective Clothing (Fire)</b>	Not applicable.
<b>Special Remarks on Fire Hazards</b>	Not available.
<b>Special Remarks on Explosion Hazards</b>	Not available.

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### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
<b>Large Spill and Leak</b>	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
<b>Spill Kit Information</b>	No specific spill kit required for this product.

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### Section 7. Handling and Storage

<b>Handling</b>	Avoid breathing dust. Do not ingest. Avoid contact with skin and eyes.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

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### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses.
<b>Body</b>	Lab coat.
<b>Respiratory</b>	Not applicable.
<b>Hands</b>	Not applicable.
<b>Feet</b>	Not applicable.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Product Name</b>	<b>Exposure Limits</b>
ALIZARIN RED S	Not available.

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### Section 9. Physical and Chemical Properties

<b>Odor</b>	Odorless.
<b>Color</b>	Yellow. Orange.
<b>Physical State and Appearance</b>	Solid. (Powder.)
<b>Molecular Weight</b>	342.26 g/mole

<b>Molecular Formula</b>	C14-H7-O7-SNa
<b>pH</b>	Not available.
<b>Boiling/Condensation Point</b>	Not available.
<b>Melting/Freezing Point</b>	Not available.
<b>Specific Gravity</b>	Not available.
<b>Vapor Pressure</b>	Not available.
<b>Vapor Density</b>	Not available.
<b>Odor Threshold</b>	Not available.
<b>Evaporation Rate</b>	Not available.
<b>LogKow</b>	Not available.
<b>Solubility</b>	Soluble in water.

<b>Section 10. Stability and Reactivity</b>	
<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Reactive with oxidizing agents.
<b>Rem/Incompatibility Hazardous Decomposition Products</b>	Not available.
<b>Hazardous Polymerization</b>	Not available.
	Will not occur.

<b>Section 11. Toxicological Information</b>		
	Alizarin Red S, Certified Biological Stain	CB1095300
<b>RTECS Number:</b>		
<b>Toxicity</b>	LD50: Not available.	
	LC50: Not available.	
<b>Chronic Effects on Humans</b>	Not available.	
<b>Acute Effects on Humans</b>	Not available.	
<b>Synergetic Products (Toxicologically)</b>	Not available.	
<b>Irritancy</b>	Draize Test: Not available.	
<b>Sensitization</b>	Not available.	
<b>Carcinogenic Effects</b>	This material is not known to cause cancer in animals or humans.	
<b>Toxicity to Reproductive System</b>	Not available.	
<b>Teratogenic Effects</b>	Not available.	
<b>Mutagenic Effects</b>	Not available.	

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	Not available.
<b>BOD5 and COD</b>	Not available.
<b>Toxicity of the Products of Biodegradation</b>	The product itself and its products of degradation are not toxic.

**Section 13. Disposal Considerations**

EPA Waste Number

Not available.

Treatment

Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification

Not available.

TDG Classification

Not available.

IMO/IMDG

Not available.

Classification

ICAO/IATA

Not available.

Classification

Section 15. Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: ALIZARIN RED S

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada)

Not controlled under WHMIS (Canada).

CEPA DSL: ALIZARIN RED S

International Regulations

EINECS

ALIZARIN RED S 204-981-8

DSCL (EEC)

This product is not classified according to the EU regulations.

International Lists

Australia (NICNAS): ALIZARIN RED S

Japan (MITI): ALIZARIN RED S

Korea (TCCL): ALIZARIN RED S

Philippines (RA6969): ALIZARIN RED S

China: No products were found.

No products were found.

California prop. 65: No products were found.

State Regulations

Section 16. Other Information

Changed Since Last Revision

Notice to Reader

National Fire Protection Association (U.S.A.)

Health

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Fire Hazard Reactivity Specific Hazard

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