

Alizarin Red S, Certified Biological Stain

Material Safety Data Sheet

Section 1. Product and Company Identification

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|----------------------------------|---|----------------------------------|---|
| Product Name | Alizarin Red S, Certified Biological Stain | Product Code | AX0485 |
| Manufacturer | EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc. | Effective Date | 3/3/2003 |
| 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 Family | Anthraquinone derivative. | | |

Section 2. Composition and Information on Ingredients

| Component | CAS # | % by Weight |
|------------------|--------------|--------------------|
| ALIZARIN RED S | 130-22-3 | 100 |

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 Aggravated by Overexposure: | Additional information See Toxicological Information (section 11) Repeated or prolonged exposure is not known to aggravate medical condition. |

Section 4. First Aid Measures

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| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately |
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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. |

Section 5. Fire Fighting Measures

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

Section 6. Accidental Release Measures

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| Small Spill and Leak | Use appropriate tools to put the spilled solid in a convenient waste disposal container. |
| Large Spill and Leak | 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. |
| Spill Kit Information | No specific spill kit required for this product. |

Section 7. Handling and Storage

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

Section 8. Exposure Controls/Personal Protection

Engineering Controls 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.

Personal Protection

Eyes Safety glasses.

Body Lab coat.

Respiratory Not applicable.

Hands Not applicable.

Feet Not applicable.

Protective Clothing

(Pictograms)

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

ALIZARIN RED S

Exposure Limits

Not available.

Section 9. Physical and Chemical Properties

Odor Odorless.

Color Yellow. Orange.

Physical State and Appearance Solid. (Powder.)

Molecular Weight

342.26 g/mole

Molecular Formula C₁₄-H₇-O₇-SNa

pH Not available.

Boiling/Condensation Point Not available.

Melting/Freezing Point

Not available.

Specific Gravity

Not available.

Vapor Pressure Not available.

Vapor Density Not available.

Odor Threshold Not available.

Evaporation Rate Not available.

LogKow Not available.

Solubility Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions of Instability

Not available.

Incompatibility with Various Substances

Reactive with oxidizing agents.

Rem/Incompatibility

Not available.

Hazardous Decomposition Not available.

Decomposition

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Products

Hazardous Will not occur.

Polymerization

Section 11. Toxicological Information

RTECS Number:

Alizarin Red S, Certified Biological CB1095300
Stain

Toxicity LD50: Not available.

LC50: Not available.

Chronic Effects on Not available.

Humans

Acute Effects on Not available.

Humans

Synergetic Products Not available.

(Toxicologically)

Irritancy Draize Test: Not available.

Sensitization Not available.

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

Effects

Toxicity to Not available.

Reproductive

System

Teratogenic Effects Not available.

Mutagenic Effects Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Toxicity of the The product itself and its products of degradation are not toxic.

Products of

Biodegradation

Section 13. Disposal Considerations

EPA Waste Not available.

Number

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 Proper Shipping Name: CHEMICALS,
N.O.S.

RQ: Not applicable.

TDG Classification Not available.

IMO/IMDG

Not available.

Classification

ICAO/IATA

Proper Shipping Name: CHEMICALS,
N.O.S.

Classification

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RQ: Not applicable.

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

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

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.

State Regulations No products were found.

California prop. 65: No products were found.

Section 16. Other Information

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

**0 Fire
00 Hazard
Health
Reactivity
Specific Hazard**

**Changed Since Last
Revision** +
Notice to Reader

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