



Issuing Date 20-Oct-2010

Revision Date 05-May-2011

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name** Alizarin Red S, Certified

**Product Code(s)** 9436

**Recommended Use** For Further Manufacturing Use Only  
Not for Human or Animal Drug Use

**Recommended Use** Histochemical stain for calcium in tissues. Also used as pH indicator.

**Synonyms** ACID RED ALIZARINE \* AHCOQUINONE RED S \* ALIZARIN CARMINE (BIOLOGICAL STAIN) \* ALIZARINE CARMINE INDICATOR \* ALIZARINE RED A \* ALIZARINE RED AS \* ALIZARINE RED INDICATOR \* ALIZARINE RED S (BIOLOGICAL STAIN) \* ALIZARINE RED S SODIUM SALT \* ALIZARINE RED SW \* ALIZARINE RED SZ \* ALIZARINE RED W \* ALIZARINE RED WA \* ALIZARINE RED FOR WOOL \* ALIZARINE RED WS \* ALIZARINE S \* ALIZARINE S EXTRA CONC. A EXPORT \* ALIZARINE S EXTRA PURE A \* ALIZARIN RED S \* ALIZARINROT-S (GERMAN) \* ALIZARIN S \* ALIZARINSULFONATE \* CALCOCHROME ALIZARINE RED SC \* CARNELIO RUBINE LAKE \* CHROME RED ALIZARINE \* C.I. 58005 \* C.I.MORDANT RED 3 \* DIAMOND RED W \* 9,10-DIHYDRO-3,4-DIHYDROXY-9,10-DIOXO 2-ANTHRACENESULFONIC ACID MONOSODIUM SALT \* EXT D AND C RED NO. 7 \* FENAKROM RED W \* MITSUI ALIZARINE RED S \* OXANAL FAST RED SW \* SODIUM-ALIZARINESULFONATE \* SODIUM ALIZARIN-3-SULFONATE \*

**Company**  
 AMRESKO, LLC  
 6681 Cochran Road  
 Solon, Ohio 44139

**Emergency Telephone Number** Chemtrec 1-800-424-9300

**Company Phone Number** 1-800-448-4442  
**E-mail Address** info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

**Classification** Skin Irritant 2 Eye Irritant 2

**Signal Word** Warning



**Hazard Statements**

H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

**Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
2-Anthracenesulfonic acid, 9,10-dihydro-3,4-dihydroxy-9,10-dioxo-, monosodium salt	EEC No. 204-981-8	Not available	130-22-3	95-100	-

**4. FIRST AID MEASURES**

**Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**Skin Contact**

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

**Inhalation**

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion**

Clean mouth with water. Consult a physician.

**Notes to Physician**

Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

**Flammable Properties**

Not flammable

**Flash Point**

Not determined

**Suitable Extinguishing Media**

Dry chemical, CO2, water spray or regular foam

**Hazardous Combustion Products**

Carbon oxides, Sulfur oxides, Sodium oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** Not sensitive  
**Sensitivity to Static Discharge** Not sensitive

**Protective Equipment and Precautions 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** Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation

**Methods for Containment** Prevent further leakage or spillage if safe to do so

**Methods for Cleaning Up** Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

**7. HANDLING AND STORAGE**

**Handling** Handle in accordance with good industrial hygiene and safety practice

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place

**Incompatible Products** Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Anthracenesulfonic acid, 9,10-dihydro-3,4-dihydroxy-9,10-dioxo-, monosodium salt 130-22-3			

**Engineering Measures** Showers  
 Eyewash stations  
 Ventilation systems

**Personal Protective Equipment**

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange -brown
Odor	No information available
Odor Threshold	No information available
Decomposition Temperature °C	No information available
Freezing Point	No information available
Initial Boiling Point	No information available
Physical State	Powder
pH	No data available
Flash Point	Not determined
Autoignition Temperature	No data available
Boiling Point/Range	No data available
Melting Point/Range	No data available
Flammability Limits in Air	<b>Upper</b> No data available <b>Lower</b> No data available
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	No data available
MMHG @ 37.8 C	No data available
Vapor Density	No data available
Specific Gravity	No data available
Solubility	Moderately soluble
Partition Coefficient (n-octanol/water)	No data available
Viscosity	No information available

## 10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Strong oxidizing agents.
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	Carbon oxides. Sulfur oxides. Sodium oxides.
Hazardous Polymerization	Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Product Information	Causes skin, eye and respiratory tract irritation.
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### Chronic Toxicity

Chronic Toxicity	No known effect based on information supplied
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Target Organ Effects	None known.
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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The environmental impact of this product has not been fully investigated

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations

**14. TRANSPORT INFORMATION**

**IATA** Not regulated

**DOT** Not regulated

**15. REGULATORY INFORMATION**

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
2-Anthracenesulfonic acid, 9,10-dihydro-3,4-dihydroxy-9,10-dioxo-, monosodium salt	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II

2-Anthracenesulfonic acid, 9,10-dihydro-3,4-dihydroxy -9,10-dioxo-, monosodium salt 130-22-3 ( 95-100 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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**International Inventories**

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**International Regulations**

**Mexico - Grade** No information available.

Canada

WHMIS Hazard Class  
D2B Toxic materials



## 16. OTHER INFORMATION

**Issuing Date** 20-Oct-2010

**Revision Date** 05-May-2011

**Revision Note**  
No information available.

**Recommended Restrictions** No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**