







SDS no. 224XFEPF • Version 1.0 • Date of issue: 2024-12-18

SECTION 1: Identification

GHS Product identifier

Product name ALIZARIN RED S

Other means of identification

Product Code Product Code

ALIZARIN RED S AL080
Mordant Red 3, C.I. 58005, Alizarine carmine, Alizarine S,
9,10-Dihydro-3,4-dihydroxy-9,10 dioxo-2-anthracenesulfonic acid
monosodium salt, Sodium alizarinesulfonate, Alizarin sulfonate
sodium, Alizarin sodium monosulfonate

Recommended use of the chemical and restrictions on use

Acid-base indicator: pH 3.7 yellow to 5.2 purple, reagent for aluminium, stain in microscopy and determination of fluorine.

Additional information: Preparation for use as:
pH indicator - 0.1 g in 100 ml water.
br>metal indicator - 0.05-0.2% water.

Supplier's details

Name ChemSupply Australia Pty Ltd

Address 38-50 Bedford Street

5013 Gillman South Australia

Australia

Telephone 08 8440 2000

email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity following single exposure, Cat. 3

GHS label elements, including precautionary statements

Pictograms



Signal word Warning

Hazard statement(s)

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

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water/soap

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P312 Call a POISON CENTER/doctor/physcian if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 342.26

Components

| Component | CAS no. | Concentration |
|------------------------------------|----------|-------------------|
| Alizarin Red S (EC no.: 204-981-8) | 130-22-3 | <= 100 % (weight) |
| | | |

CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2A; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness.

SECTION 4: First-aid measures

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Safety Data Sheet ALIZARIN RED S

Description of necessary first-aid measures

General advice First Aid Facilities: Maintain evewash fountain in work area.

If inhaled If inhaled, remove from contaminated area to fresh air immediately. Apply artificial

respiration if not

breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other

symptoms appear.

In case of skin contact

Wash with plenty of soap and water. Remove contaminated clothing and wash before

re-use. Seek

medical advice if effects persist.

In case of eye contact Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if

symptoms persist.

If swallowed Rinse mouth thoroughly with water immediately. Do not induce vomiting. Seek medical

attention.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO2, water spray or foam.

Large fire: Use water spray, fog or foam.

Specific hazards arising from the chemical

Hazards from Combustion Products: May librate toxic fumes including oxides of carbon, sulfur and nitrogen.

May burn but do not ignite readily.

Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

SECTION 7: Handling and storage

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Precautions for safe handling

Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material.

Conditions for safe storage, including any incompatibilities

Store away from oxidizing agents. Store away from sources of heat or ignition. Store in a cool,dry place. Keep containers closed at all times.

Storage Temperatures: Store at +5 °C to +30 °C.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state Solid

Appearance Reddish-brown powder.
Color No data available.
Odor Characteristic odour.
Odor threshold No data available.

Melting point/freezing point 287-289 °C

Boiling point or initial boiling point and boiling range 430 °C (sublimable)

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Flammability No data available. Lower and upper explosion limit/flammability limit No data available. Flash point No data available. No data available. **Explosive properties** Auto-ignition temperature No data available. No data available. Decomposition temperature Oxidizing properties No data available. No data available. Kinematic viscosity No data available.

Solubility in Water: Soluble. [13] Solubility in Organic Solvents:

Soluble in aromatic solvents, hot methanol and ether,

moderately soluble in ethanol.

Partition coefficient n-octanol/water (log value)

Vapor pressure

Evaporation rate

No data available.

Relative vapor density

No data available.

Particle characteristics

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

Heat, flames, ignition sources and incompatibles.

Incompatible materials

Strong oxidisers.

Hazardous decomposition products

May librate toxic fumes including Oxides of carbon, sulfur and nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion: May cause irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

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Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Skin corrosion/irritation

Causes skin irritation. Symptoms may include redness, itching and pain. May cause dermantitis.

Serious eye damage/irritation

Causes irritation, redness and pain.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

Specific Target Organ Toxicity - Single Exposure Category 3 H335 May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

Additional information

Chronic Effects: Repeated or prolonged skin contact may cause chronic dermatitis.

SECTION 12: Ecological information

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

Preparation information

IMO, International Maritime Dangerous Goods Code (IMDG)

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)