MATERIAL SAFETY DATA SHEET  
ALIZARIN RED S, 1% Aqueous

SECTION I
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SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

NAME: ALIZARIN RED S, 1% Aqueous

COMPONENTS:
(1) alizarin red s, 1%
(2) water, balance

CAS: 130-22-3
7732-18-5

FORMULA/F.WT.
C14H7NaO7S/342.25
H2O/18.00

CERCLA RATING (0-3): Health- U Fire- D Reactivity- 0 Persistance- 3
NFPA RATING (0-4): Health- n/a Fire- n/a Reactivity- n/a

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling pt: 100 C
Melting pt: 0 C
Sp. gravity: 1.0
Evaporation rate: n/a
Vapor press: n/a
Vapor density: n/a
pH: slightly acid
Appearance/Odor: dark amber solution/odorless.
Solubility: soluble in water

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash pt: Explosion level-lower(LEL): -upper(UEL): -
Autoignition: Negligible fire hazard when exposed to heat or flame
Extinguishing Media: dry chemical, carbon dioxide.

Firefighting: no acute hazard. Move container from fire area if possible.

SECTION V - REACTIVITY DATA

Stability: stable under normal temperatures and pressures.
Condition to Avoid: none reported.
Hazardous Decomposition/Byproducts: none known. Dry alizarin red S sublimes without change.
Hazardous Polymerization: not known to occur.

SECTION VI - HEALTH HAZARD DATA

Toxicity: toxicity of alizarin red S has not been quantified.
Carcinogenicity: none.

Exposure Limits: none established by OSHA, NIOSH, ACGIH

OSHA-PEL: ACGIH-TWA: STEL: TLV CEILING: IDLH: OTHER:

Acute Health Hazards: may cause irritation to eyes and skin.

Chronic Health Hazards: no data available.

First Aid:
Inhalation: remove from exposure area immediately. If breathing has stopped, give artificial respiration. Get medical aid at once.

Skin: remove contaminated clothing. Flush skin with large amounts of water for 15-20 minutes. Get medical aid at once.

Eyes: flush eyes with large amounts of water for 15-20 minutes. Get medical aid at once.

Ingestion: if victim is conscious, give 2-4 glasses of water and induce vomiting. Get medical aid at once.

SECTION VII – PRECAUTION FOR SAFE HANDLING AND USE

Spills or Leaks: take up with absorbent material (vermiculite) and place in plastic container for later disposal.

Disposal: dispose of according to federal, state, and local regulations.

Storage and handling: store in cool, dry area.

SECTION VIII – CONTROL MEASURES

Respiratory Protection: provide local ventilation. Firefighting—use self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

Protective Clothing and Equipment: wear splash-proof goggles. Provide an eye wash fountain in work area.

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(Note: n/a means "not applicable" or data "not available").