



Safety Data Sheet

Contrast Red Solution

SDS-10265

Rev. Number: 3 Rev. Date: Nov 10, 2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
Contrast Red Solution	5540-0001 (71-00-05)

Hazardous Reagent

Contrast Red Solution

Hazardous Reagent Product code

Catalog No. listed above

Recommended Use: Reference Reagent

Contact Manufacturer: SeraCare Life Sciences
910 Clopper Road
Gaithersburg, MD 20878

Phone #: (508) 244-6400
US Toll Free: (800) 676-1881

Fax #: (508) 634-3394

Web: www.seracare.com

Email: customerservice@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER

Telephone: 13 11 26 - Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER

Telephone: (1) 613 996 6666 - Hours: 24 hours/day,
7 days/week

UK – THE NATIONAL FOCUS

Telephone: (44) 029 2041 6388 - Hours: 09:00-17:00 GMT

USA - NATIONAL RESPONSE CENTER

Telephone: (1) 800 424 8802 - Hours: 24 hours/day,
7 days/week
CHEMTREC:

CHEMTREC Customer Number: - CCN12505*
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN12505 or
+1 703-527-3887 (collect calls accepted)

2. HAZARD IDENTIFICATION

Hazard Type Health Hazard

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

GHS Classification Serious Eye Damage (Category 1), H318

Hazard Statements: H318: Causes serious eye damage

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Precautionary Statements: P280: Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Symbols and Indications of Danger: GHS05 Danger



Principle Route of Exposure: Ingestion, Inhalation and Skin contact.
Acute Effects: Eye May cause redness and irritation
Acute Effects: Skin: Dry skin.
Acute Effects: Inhalation: Data for 100% Glycerol: Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly on spraying .
Acute Effects: Ingestion: Diarrhea
Short-Term Exposure Not Available
Long-Term Exposure Not Available
Ingestion: Not Available
Chronic Effects: Not Available
Additional Information Not Available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CHEMICAL</u>	<u>% Weight</u>	<u>CAS #:</u>
Contrast Red Solution	Glycerol	30%	56-81-5
	Aluminum Sulfate Hydrate	5%	17927-65-0
GHS Classification	Serious Eye Damage (Category 1), H318		

4. FIRST AID MEASURES

General Advice: Wash contaminated clothing before reuse. Consult a physician if irritation persists.
Oral Exposure: Rinse mouth. Refer for medical attention.
Inhalation Exposure: Remove subject to fresh air. Seek medical attention if necessary.
Skin Exposure: Rinse with copious amounts of water
Eye Exposure: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

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5. FIRE FIGHTING MEASURES

Extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Alcohol-resistant foam. Dry powder. Carbon dioxide.
Unusual Fire and Explosive Hazards:	In case of fire: keep drums, etc., cool by spraying with water. Data for 100% Aluminum Sulfate: Ambient fire may liberate hazardous vapors or decomposition products. Sulphur oxides Metal oxide fume Wear self-contained breathing apparatus.
Flammability Statement:	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.
Specific hazards arising from the substance or mixture:	Sulphur oxides, aluminum oxide.
Protective equipment and precautions for firefighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin and clothing.
Environmental Precautions:	Do not let product enter drains.
Method of Containment	Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent and remove to safe place.
Method of Clean-up	Clean-up with copious amounts of water.
Other Information:	Not Available

7. HANDLING AND STORAGE

Handling:	Wear appropriate PPE
Storage:	Store at 2-8°C. Separated from strong oxidants.

8. EXPOSURE CONTROL

Respiratory Protection:	Ventilation.
Eye Protection:	Safety goggles.
Skin Protection:	Protective gloves and clothing required
Ingestion:	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Reddish Colored Solution
Physical State:	Liquid
Odor:	Not Applicable
Odor Threshold:	Not Applicable
pH:	Not Applicable
Melting point/freezing point	Data for 100% Aluminum Sulfate 86.5 °C (187.7 °F)
Boiling Point:	No data available
Evaporation Rate:	Not Applicable

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Vapor Density:	No data available
Vapor Pressure:	No data available
Relative Density:	Data for 100% Aluminum Sulfate 1.69 g/cm ³ at 25 °C (77 °F)
Auto-Ignition Temperature:	Not Available
Water Solubility:	No data available
Flammability:	No data available
Flash Point:	No data available
Viscosity:	No data available
Oxidizing Properties:	Not Available
Explosive Properties:	No data available
Additional Parameters	See Datasheet/Product Insert for other Product Information.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal condition / recommended storage conditions
Conditions to avoid:	Data for 100% Aluminum Sulfate Hydrate: The substance can react dangerously with strong oxidizing agents.
Incompatibility Materials to Avoid:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon Monoxide, Carbon Dioxide, Sulphur Oxides, Aluminum Oxide
Hazardous Polymerization:	Not Available
Possibility of hazardous reactions:	No data available

11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral:	Data for 100% Aluminum Sulfate: LD50 oral rat Value: > 9000 mg/kg Reference: Pharmacology and Toxicology Vol. 60, Pg. 280, 1987.
LD50 Dermal:	Species: Rabbit Reference: BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 9-4/1970,
LC50 Inhalation:	Not Available

Chronic Toxicity

Carcinogenicity:	Not Available
Irritation:	Yes - May Occur
Corrosivity:	Data for 100% Aluminum Sulfate: Serious eye damage, Category 1; H318
Sensitization:	Not Available
Neurological Effects:	Not Available

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Mutagenic Effects: Not Available
Reproductive Effects: Not Available
Developmental Effects: Not Available
Target Organ Effects: No data available
Other adverse effects: None

12. ECOLOGICAL MEASURES

Ecotoxicity: Data for 100% Aluminum Sulfate: LC50 Fish (96 hours) Minimum: 0,958 mg/l Maximum: 36,1 mg/l
Median: 2,99 mg/l
Study number: 6 Reference for median: Roy, R.L., and P.G.C. Campbell 1997. Decreased Toxicity of A1 to Juvenile Atlantic Salmon (*Salmo salar*) in Acidic Soft Water Containing Natural Organic Matter: A Test of the Free-Ion Model. *Environ.Toxicol.Chem.* 16(9):1962-1969; Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC :505 p. (USGS Data File)
LC50 Crustaceans (48 hours) Minimum: 23,6 mg/l Maximum: 38,2 mg/l Median: 38,2 mg/l
Study number: 6 Reference for median: Kimball, G. 1978. The Effects of Lesser Known Metals and One Organic to Fathead Minnows (*Pimephales promelas*) and *Daphnia magna*. Manuscr., Dep.of Entomol., Fish.and Wildl., Univ.of Minnesota, Minneapolis, MN :88 p.

Persistence/Degradability: No data available
Mobility in Environmental Media: Not Available
Bioaccumulation/ Accumulation: Not expected

13. DISPOSAL MEASURES

Waste Disposal Method: Observe all Federal, State and Local laws concerning health and pollution.
Contaminated Packaging: Place contaminated packaging in a break proof outer vessel and dispose of in compliance with national and local regulations.
US EPA Waste Number: Not Available

14. TRANSPORTATION MEASURES

DOT: Not Available
IATA: Not Available
ADR (road)/ RID (rail): Not Available
IMDG (sea): Not Available
General Transport Regulations Not Available

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15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372. SARA Section 311/312

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

This product contains no chemicals which are subject to the reporting requirements of the Clean Air Act.

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals

None Listed

State Right to Know Act

Chemical Name:	Glycerol	Aluminum Sulfate Hydrate
Massachusetts:	Listed	Listed
New Jersey:	Listed	Not Listed
Pennsylvania:	Listed	Listed
New York:	Not Listed	Not Listed
Rhode Island:	Not Listed	Not Listed

International Inventories

Chemical Name:	GLYCEROL	
TSCAL:	Listed	Not Listed
DSL:	Listed	Not Listed
NDSL:	Not Listed	Not Listed
EINECS:	Listed	Listed
CHINA:	Listed	Listed
KECL:	Listed	Listed
JAPAN:	Listed	Listed
AICS:	Listed	Not Listed

EU Regulations

Annex I Index#: Not Applicable

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Classification:	Serious Eye Damage (Category 1), H318
REACH (EU) 1907/2006	This product does not contain any SVHC substance included in candidate list per article 59(10) of EC 1907/2006 regulation
Hazard Statements:	H318: Causes serious eye damage.
Precautionary Statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Symbols and Indications of Danger:	GHS05 Danger
Specific Concentration Limits:	Not Applicable

16. OTHER INFORMATION

The above information is believed to be accurate, complete and current but does not purport to be all inclusive and shall be used as a guide. SeraCare Life Sciences makes no representation or warranties with respect to the product described herein, including but not limited to any implied warranties or merchantability or fitness for a particular use. SeraCare assumes no liability or responsibility and authorizes no other person to assume any additional liability or responsibility as a result of the use of this product or the information contained in the Safety Data Sheet.

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