

Safety Data Sheet

Revision Date: 6/16/2015

SDS # SDS-10266-02 Contrast Blue Solution

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: Product Code

Contrast Blue Solution 71-00-06

Hazardous Reagent Product code

Contrast BLUE Solution Catalog No. listed above

Recommended Use Reagent

Contact Manufacturer KPL, Inc. Phone #: 1-301-948-7755

910 Clopper Road
Gaithersburg, Maryland 20878
USA

Fax #: 1-301-948-0169
Web: www.kpl.com

Email: kplmsds@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER Telephone: 13 11 26 Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER
UK – THE NATIONAL FOCUS
USA- NATIONAL RESPONSE CENTER
Telephone: (1) 613 996 6666
Telephone: (1) 613 996 6666
Telephone: (1) 629 2041 6388
Telephone: (1) 800 424 8802

CHEMTREC: CHEMTREC Customer Number:- CCN12505*

2. HAZARD IDENTIFICATION

Hazard Type Health

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.

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.

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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: Diarrhoea.

Chronic Effects: Not Available

Additional Information Not Available

3. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentCHEMICAL% WeightCAS #:Contrast Blue SolutionGLYCEROL10%56-81-5

Aluminium Sulfate 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.

5. FIRE FIGHTING MEASURES

Extinguishing media Water spray. Alcohol-resistant foam. Dry powder. Carbon dioxide

Unusual Fire and Explosive

Hazards

Data for 100% Glycerol: In case of fire: keep drums, etc., cool by spraying with water. Data for 100% Aluminium Sulfate: Ambient fire may liberate hazardous vapours or decomposition

products. Sulphuric oxides Metal oxide fume Wear self-contained breathing apparatus.

Flash Point Data for 100% Glycerol: 176°C c.c.

Autoignition Temperature Data for 100% Glycerol: 393°C

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Flammability Statement Combustible. Gives off irritating or toxic fumes (or gases) in a fire.

the chemical

Specific hazards arising from Upon evaporation of water, glycerol may omit toxic fumes under fire conditions. In the event of

fire and/or explosion do not breathe fumes.

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 Not Applicable

Method of Containment Collect leaking liquid in covered containers. Absorb remaining liquid in sand or inert absorbent

and remove to safe place.

Methods of Clean-up Clean-up with copious amounts of water.

Other Information Not Applicable

7. HANDLING AND STORAGE

Wear appropriate PPE. Handling:

Storage: Store at 2-8°C. refrigerated. Separated from strong oxidants.

8. EXPOSURE CONTROL

Respiratory Protection Ventilation.

Eve 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-purple colored solution.

Physical State Liquid

Odor Not Applicable **Odor Threshold** Not Applicable Not Applicable pН

Boiling Point Data for 100% Glycerol: 290°C

Evaporation Rate Not Applicable

Vapor Density Data for 100% Glycerol: 3.2 Data for 100% Glycerol: 0.01 **Vapor Pressure Relative Density** Data for 100% Glycerol: 1.26 **Auto-Ignition Temperature** Data for 100% Glycerol: 393°C

Dilutable Water Solubility

Flammability Data for 100% Glycerol: 393°C Flash Point Data for 100% Glycerol: 176°C c.c.

Viscosity Viscous

Oxidizing Properties Not Applicable

Explosive Properties Data for 100% Glycerol: 2.6 - 11.3

Additional Parameters Not Applicable

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10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal condition

Conditions to avoid Data for 100% Glycerol: NO open flames. Data for 100% Aluminium Sulfate Hydrate: The

substance can react dangerously with strong oxidizing agents.

Incompatibility Materials to

Avoid

Strong oxidizing agents and strong bases

Hazardous Decomposition

Products

Carbon Monoxide, Carbon Dioxide, Sulphur Oxides, Aluminium Oxide

Hazardous Polymerization Not Available

Possibility of hazardous

reactions

Data for 100% Glycerol: Reacts with strong oxidants causing fire and explosion hazard.

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% Aluminium Sulfate: LD50 oral rat Value: > 9000 mg/kg Reference:

Pharmacology and Toxicology Vol. 60, Pg. 280, 1987.

Data for 100% Glycerol: LD50 oral rat: 12600 mg/kg Reference: Federation Proceedings,

Federation of American Societies for Experimental Biology. Vol. 4, Pg. 142, 1945.

LD50 Dermal Data for 100% Glycerol: LD50 dermal rat/rabbit: > 10000 mg/kg

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% Aluminium Sulfate: Serious eye damage, Category 1; H318

SensitizationNot AvailableNeurological EffectsNot AvailableMutagenic EffectsNot AvailableReproductive EffectsNot AvailableDevelopmental EffectsNot Available

Target Organ Effects Oral, Skin, Respiratory Tract, Gastrointestinal Tract.

Other adverse effects Not Available

12. ECOLOGICAL MEASURES

Ecotoxicity Data for 100% Aluminium 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)

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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

Data for 100% Glycerol: Readily biodegradable in aquatic environment

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: Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer

vessel and dispose on 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

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 and Title 40n of the Code of Federal Regulations, Part 372.

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

This product contains no chemical or 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	Aluminium Sulfate
Massachusetts	Listed	
New Jersey	Listed	Not Listed
Pennsylvania	Listed	Not Listed
New York	Not Listed	Not Listed
Rhode Island	Not Listed	Not Listed

International Inventories

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Chemical Name GLYCEROL Aluminium Sulfate

TSCA Listed Not Listed Listed **DSL** Not Listed **NDSL** Not Listed Not Listed **EINECS** Listed Listed **CHINA** Listed Listed **KECL** Listed Listed JAPAN: Listed Listed Listed **AICS** Not Listed

EU Regulations

Annex I Index# Not Applicable

ClassificationSerious Eye Damage (Category 1), H318Hazard StatementsH318: Causes serious eye damage.

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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 correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.