

PhThalo BLUE Solution

SDS-10276 Rev. Number: 2 Rev. Date: Feb 26, 2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: Product Code

HistoMark® PhThaloBLUE Solution 5510-0037 (71-00-03)

Hazardous Reagent Hazardous Reagent Product code

HistoMark® PhThaloBLUE Solution Catalog No. listed above

Recommended Use: Reagent

Contact KPL, Inc. **Phone #:** 1 (301) 948-7755

Manufacturer: 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 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: Data for 100% Diethylene Glycol: Harmful if swallowed, Causes damage

to kidneys if swallowed, May cause drowsiness or dizziness

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

GHS Classification Annex I Index#: 603-140-00-6

Substance Name in Annex 1: 2, 2' -oxybisethanol diethylene glycol Classification: Acute

Tox. 4

Hazard Statements: H302: Harmful if swallowed.

Precautionary Statements: P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

Symbols and Indications of

Danger:

GHS07: Warning



Principle Route of Exposure: The substance can be absorbed into the body by ingestion.

Acute Effects: Eye None
Acute Effects: Skin: None

Acute Effects: Inhalation: A harmful contamination of the air will not or will only very slowly be reached on

evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

Inhalation Risk:

Short-Term Exposure The substance may cause effects on the kidneys, resulting in kidney impairment The

substance may cause effects on the central nervous system and liver by ingestion.

Exposure by ingestion may result in death.

Long-Term Exposure Not Available

Ingestion: Abdominal pain. Nausea. Vomiting. Diarrhoea. Dizziness. Drowsiness. Confusion.

Unconsciousness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CHEMICAL	% Weight	CAS #:	
HistoMark® PhThaloBL UE Solution	2,2' -oxybisethanol diethylene glycol	80%	111-46-6	
		3.3%	7647-01-0	
	Hydrochloric Acid			
GHS Classification	Annex I Index#: 603-140-00-6			
	Substance Name in Annex 1: 2,2' -oxybisethanol diethylene glycol Classification: Acute Tox. 4			

4. FIRST AID MEASURES

General Advice: Seek medical attention

Oral Exposure: May be harmful if swallowed.

Give one or two glasses of water to drink. Refer immediately for medical attention. See

Notes. 007

Inhalation Exposure: May cause irritation to the respiratory tract.

Fresh air, rest.

Skin Exposure: Absorption through skin may occur. May cause irritation to the skin

Rinse skin with plenty of water or shower.

Eye Exposure: Direct contact with product may result in eye irritation.

Rinse with plenty of water (remove contact lenses if easily possible).

5. FIRE FIGHTING MEASURES

Extinguishing media: Water Foam Carbon dioxide (CO2) Dry powder

Unusual Fire and Explosive

Hazards:

Combustible.

Flash Point: 138 °C (280 °F)

Auto ignition Temperature: 372 °C (702 °F) at 1,013.25 hPa

Flammability Statement: NO open flames.

Specific hazards arising from

the chemical:

Reacts violently with strong oxidants causing fire and explosion hazard. Attacks some

forms of plastic.

Protective equipment and precautions for firefighters:

Powder, alcohol-resistant foam, water spray, carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Evacuate personnel to safe areas. For personal protection see

section 8.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Should not be released into the

environment.

Method of Containment Soak up with inert absorbent material and dispose of as hazardous waste. Keep in

suitable, closed containers for disposal.

Method of Clean-up Wash away spilled liquid with plenty of water.

Other Information: Data for 100% Diethylene Glycol: Personal protection: filter respirator for organic gases

and vapours adapted to the airborne concentration of the substance.

Data for 100% Hazardous Chemical

SPILLAGE DISPOSAL Personal protection: filter respirator for organic gases and vapours adapted to the airbome

concentration of the substance. Collect leaking liquid in sealable containers. Wash away

spilled liquid with plenty of water.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice.

Storage: Store at room temperature. Data for 100% Diethylene Glycol: Dry. Well closed.

Separated from strong oxidants.

Data for 100% Hazardous Chemical

STORAGE Dry. Well closed. Separated from strong oxidants

8. EXPOSURE CONTROL

Data for 100% Hazardous Chemical

Respiratory Protection: Ventilation.

Eye Protection: Safety spectacles.

Skin Protection: Protective gloves.

Ingestion: Do not eat, drink, or smoke during work.

Engineering Controls Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection -

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection -

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal

technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory

practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time:

480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material:

Nitrile rubber

Minimum layer thickness: 0.11 mm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear with a pink-brown tint solution

-6.5°C

Physical State: Liquid

Odor: Not Applicable
Odor Threshold: Not Applicable

pH: < 2.0 6 - 8

Temperature: 20 °C

Concentration: 200 g/l

Boiling Point: 244 °C

Melting Point:

Evaporation Rate: No data available

Vapor Density: (air = 1): 3.7
Vapor Pressure: Pa at 20°C: 2.7
Relative Density: (water = 1): 1.12

Auto-Ignition Temperature: 229°C
Water Solubility: miscible

Flammability: No data available

Flash Point: 124°C c.c.

Viscosity: No data available

Oxidizing Properties: No data available

Explosive Properties: vol% in air: 1.6-10.8

Additional Parameters See Datasheet/Product Insert for other Product Information.

Octanol/water partition coefficient as log Pow:

1.47

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions

Conditions to avoid: Heating in air. Exposure to moisture. Strong heating.

Incompatibility Materials to

Avoid:

Strong oxidants.

Hazardous Decomposition

Products:

Upon evaporation of water, toxic gases and vapors may be released if involved in a fire.

Hazardous Polymerization: Will not occur

Possibility of hazardous

reactions:

Reacts violently with strong oxidants causing fire and explosion hazard. Attacks some

forms of plastic.

PHYSICAL DANGERS: Not 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 rat: 12600 mg/kg

LD50 Oral: Reference: Raw Material Data Handbook,

Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 25, 1974.

LD50 dermal rat/rabbit: 11900 mg/kg Species: Rabbit

LD50 Dermal: Reference: Raw Material Data Handbook,

 $Vol.1: Organic \, Solvents, \, 1974. \, Vol. \, 1, \, Pg. \, 25, \, 1974.$

LC50 Fish (96 hours) Minimum: 75200 mg/l

Maximum: 75200 mg/l

Median: 75200 mg/l

LC50 Inhalation: Study number: 1

Reference: Geiger, D.L., L.T. Brooke, and D.J. Call 1990. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Volume 5. Ctr.for Lake

Superior Environ.Stud., Univ.of Wisconsin-Superior, Superior, WI:332 p.

Chronic Toxicity

Carcinogenicity: Not Applicable

Irritation: Data for 100% Diethylene Glycol: Eyes - rabbit | Result: No eye irritation

Corrosivity: Data for 100% Diethylene Glycol: Skin - rabbit | Result: No skin irritation (OECD Test

Guideline 404)

Sensitization: Data for 100% Diethylene Glycol: Maximisation Test - guinea pig | Result: Did not cause

sensitisation on lab

Neurological Effects:Not AvailableMutagenic Effects:Not AvailableReproductive Effects:Not Available

Developmental Effects: Not Available

Target Organ Effects: Data for 100% Diethylene Glycol: Kidneys, Central Nervous System and Liver

Other adverse effects: Not Available

Mobility in Environmental

Bioaccumulation/

Accumulation:

12. ECOLOGICAL MEASURES

Ecotoxicity: Data for 100% 2,2' -oxybisethanol diethylene glycol:

Aquatic Toxicity: > 32,000 ppm/96 hr/mosquito fish/TLm/fresh water

Waterfowl Toxicity: Currently not available Biological Oxygen Demand (BOD): 6%, 5 days

Persistence/Degradability: Data for 100% 2,2' -oxybisethanol diethylene glycol: Readily Biodegradable

Data for 100% 2,2' -oxybisethanol diethylene glycol: Using a structure estimation method based on molecular connectivity indices(1), the Koc of diethylene glycol can be estimated to be 1(SRC). According to a classification scheme(2), this estimated Koc value suggests that diethylene glycol is expected to have very high mobility in soil. [(1) Meylan WM et al;

Media: that diethylene glycol is expected to have very high mobility in soil. [(1) Meylan WM et al; Environ Sci Technol 26: 1560-67 (1992) (2) Swann RL et al; Res Rev 85: 17-28 (1983)]

PEER REVIEWED

Data for 100% 2,2' -oxybisethanol diethylene glycol : An estimated BCF of 3 was

calculated in fish for diethylene glycol(SRC), using an estimated log Kow of -1.5(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC). [(1) Meylan WM, Howard PH; J Pharm Sci 84: 83-92 (1995) (2) Meylan WM et al; Environ Toxicol Chem 18: 664-72 (1999) (3) Franke C et al; Chemosphere 29: 1501-

14 (1994)]**PEER REVIEWED**

13. DISPOSAL MEASURES

Waste Disposal Method: Observe all Federal, State and Local laws concerning health and pollution. Data for 100%

2,2'-oxybisethanol diethylene glycol: Collection of small amounts of substance: Place in a collection container for halogen-free organic solvents and solutions of halogen-free organic substances. Collection vessels must be clearly labelled with a systematic description of their contents and with the hazard symbol and the R and S phrases. Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for

disposal.

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: EPA AEGL: Not listed

14.TRANSPORTATION MEASURES

DOT: Not Regulated

IATA: Not Regulated

ADR (road)/ RID (rail): Not Regulated

IMDG (sea): Not Regulated

General TransportRegulations

Data for 100% 2,2' -oxybisethanol diethylene glycol:
Grades of Purity: Regular grade; polyester grade 7.2

Storage Temperature: Ambient Inert Atmosphere: No requirement

Venting: Open (flame arrester) IMO Pollution Category: D

Ship Type: Data not available

Barge Hull Type: Currently 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 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 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

State Right to Know Act

Chemical Name:	2,2' -oxybisethanol diethylene glycol	Hydrochloric Acid	Leave blank or Enter chemical name if applicable
Massachusetts:	Not Listed	Listed	
New Jersey:	Not Listed	Listed	
Pennsylvania:	Listed	Listed	
New York:	Not Listed	Listed	
Rhode Island:	Listed	Listed	

International Inventories

Chemical Name:	diethylene glycol	Hydrochloric Acid
TSCAL:	Listed	Listed
DSL:	Listed	Listed
NDSL:	Not Listed	Not Listed
EINECS:	Listed	Listed
CHINA:	Listed	Listed
KECL:	Listed	Listed
JAPAN:	Listed	Listed
AICS:	Listed	Listed

2.21 avubicathanal

Leave blank or Enter chemical name if applicable

EU Regulations

Annex I Index#: Data for 100% 2,2'-oxydiethanol: 603-140-00-6

Classification: Annex I Index#: 603-140-00-6

Substance Name in Annex 1: 2,2' -oxybisethanol diethylene glycol

Classification: Acute Tox. 4

REACH (EU) 1907/2006 The product does not contain any substances included in candidate list of Substances of

very high concern.

Hazard Statements: P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

Precautionary Statements: H302: Harmful if swallowed.

Symbols and Indications of

Specific Concentration

Danger:

Limits:

GHS07: Warning (Refer to section 2)

2,2' -oxybisethanol diethylene glycol: Not Available, Hydrochloric Acid: Skin Corr. 1B; H314: $C \ge 25 \%$ | Skin Irrit. 2; H315: 10 % $\le C < 25 \%$ | Eye Irrit. 2; H319: 10 %

≤ C < 25 % | STOT SE 3; H335: C ≥ 10 %

Export and Import This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

European Priority List

This substance is not listed in a priority list (as foreseen under Council Regulation (EEC)

No 793/93 on the evaluation and control of the risks of existing substances.).

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.

Date of preparation / last revision: Feb 26, 2021 / 2