



2235 Cornell Avenue, Montgomery, IL 60538
 Phone: (800) 246-4088

Email: info@biologos.com
 Website: www.biologos.com

SAFETY DATA SHEET - 29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Bio-1460 (Dimethyl Sulfoxide >=99.9%)

Product Code: B1460™

Company: Biologos, LLC
 2235 Cornell Ave
 Montgomery, IL 60538
 PH: 800-246-4088

**Emergency INFOTRAC
 Response:** (800) 535-5053

Section 2: Hazards Identification

GH507 BLANK BLANK BLANK

Hazard Pictograms:



Signal Word: Warning

Hazard Category: Serious eye irritation Cat 2

Hazard Statements:
 H315- Causes skin irritation
 H319 - Causes serious eye irritation
 H227 - Combustible Liquid

Precautionary Statements:
 Prev: P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
 P264: Wash thoroughly after handling
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 Resp: P332+313: If skin irritation occurs: Get medical advice/attention
 P337+313: If eye irritation persists get medical advice/attention
 Storage: P403+235: Store in a well ventilated place. Keep cool

Hazards not otherwise classified:
 No specific direction
 Not applicable, none known.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Dimethyl Sulfoxide	Skin Irrt 2, H315 Eye Irrt 2A, H319	67-68-5	>99

Section 4: First Aid Measures

Notable Exposure symptoms: Causes skin and eye irritation.

If ingested: Do not induce vomiting. Obtain immediate medical attention.

If inhaled: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Eye contact: Rinse immediately with plenty of water. Take victim for medical attention.

Skin contact: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

Additional Info: Avoid contact with DMSO solutions containing toxic material or materials whose toxicological properties are not known. DMSO easily penetrates the skin and may enhance the rate of skin absorption of skin permeable substances. But because of DMSO's low toxicity and its inability to carry less-permeable substances with it through the skin, it can be concluded that DMSO does not pose a significant threat by skin absorption.

Section 5: Fire Fighting Measures

General Info: Do not enter fire area without proper protection. Special Exposure Hazards: Burning dimethyl sulfoxide produces poisonous gases (sulfur oxides). Wear rubber gloves, SCBA, and rubber suit. Wear positive pressure, self-contained breathing apparatus, (SCBA) with a full facepiece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire.

Extinguishing Method / Equipment: Foam. Dry powder. Carbon dioxide. Water.

Hazardous Decomposition Info: Sulfur dioxide, formaldehyde, methyl mercaptan, dimethyl sulfide, dimethyl disulfide and bis (methylthio) methane.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Safety glasses. Evacuate unnecessary personnel. In case of mist formation, use appropriate respiratory protection and clothing (SCBA, etc.).

Containment Equipment and Procedures: Prevent further leakage or spillage if safe to do so. Stop spill from entering drains, sewers, streams, or waterways. Remove ignition sources and ventilate area.

Cleanup Procedures: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Section 7: Handling and Storage

Safe Handling Precautions: Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with eyes.

Recommendations for Keep containers tightly closed in a dry, cool and well-ventilated place

Storage: away from heat, sparks and open flames. Store out of direct sunlight. Prolonged heating above 150 degrees Celcius can cause rapid, exothermic decomposition. Keep in properly labeled containers.

Incompatibilities: Organic and inorganic acid chlorides Strong oxidizing agents, alkali metals, hydrobromic acid, acidic solutions of alkali bromides.

Section 8: Exposure Control / Personal Protection

General / Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Controls:

Work Clothing: Rubber apron if splash hazard.

Eye/face protection: Safety glasses with side shields or goggles.

Skin Protection: Wear protective gloves. Butyl rubber, nitrile or equivalent. Consult

Respiratory Protection: In case of mist formation, wear appropriate respiratory protection.

Additional Information: None

Substances with Exposure Limits	CAS#	ACGIH-TLV	OSHA-PEL	NIOSH
Dimethyl Sulfoxide	67-68-5	Not Established	Not Established	Not Established

Section 9: Physical and Chemical Properties

State: Liquid	Melting Point: Not avail	Freezing Point: 18 °C	Odor Threshold: N/A
Color: Clear	Boiling Point/Range: 189 °C	pH: 8.5	
Sp Grav: 1.1	Odor: None	Water Solubility: Soluble	
Evaporation rate: 0.026	Flash Point (CC): 89 °C	Part. Coeff (n-octanol/water): -2.03	
Upper Flam Limits: 42-63%	Lower Flam Limits: 3.0-3.5%	Vapor Pressure: Not avail	
	Viscosity: 2.0 mPas	Autoignition Temp: Not avail	

Section 10: Stability and Reactivity

General: Stable under normal conditions.

Incompatible materials: Organic and inorganic acid chlorides Strong oxidizing agents, alkali metals, hydrobromic acid, acidic solutions of alkali bromides.

Decomposition products: Sulfur dioxide, formaldehyde, methyl mercaptan, dimethyl sulfide, dimethyl disulfide and bis (methylthio) methane.

Section 11: Toxicological Information

General Information: Causes skin and eye irritation.

Toxicological Information (product): Causes skin and eye irritation.

Likely Routes of Exposure: Skin and eye contact.

Toxicological Information (contained)

Hazardous substance (name)	LD50 Oral (Rat)	LD50 Dermal (Rabbit)	LC50 Inh (Rat)	Irritancy:
Dimethyl Sulfoxide	14,500	5,000	40,250	Not classified

Carcinogenicity: Not Classified

Mutagenicity: Not Classified

Sensitization: Not Classified

Reproductive or Developmental

Effects:

Section 12: Ecological Information

General information: Classification concerning the environment: not applicable.

	<u>96 hr LC50 Fish</u>	<u>48 hr EC50</u>
Aquatic Toxicity:	34,000 mg/l, Pimephales promelas	25,000 mg/l (48 h; Daphnia magna)

Degradation / Mobility info: Not established.

Bioaccumulative potential: Not established.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor.

Container disposal: Treat empty containers with extra care, as residual material may be flammable. Consult waste contractor.

Other considerations: None

Section 14: Transport Information

DOT: NA 1993 - Combustible liquid, n.o.s., (Dimethyl Sulfoxide)

IMO/IMDG: Not regulated for transport

IATA: Not regulated for transport

OTHER:

Section 15: Regulatory Information

TSCA: Listed

CERCLA RQ: Not Regulated by CERCLA

SARA 311/312: Not listed.

SARA 313 Not listed.

California Prop 65 No California Prop. 65 substances.

Substances:

WHMIS: Class D Division 2 Subdivision B - Toxic material causing other toxic effects.

USDOT RQ - No. DOT Marine Pollutant - No.

Clean Water Act Not listed.

Section 16: Other Information

SDS Author: Biologos, LLC

Version Date: 6/14/2017

*Information in this
SDS is from available
published sources and
is believed to be
accurate. No
warranty, express or
implied, is made and*