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SAFETY DATA SHEET - 29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Bio-1681™ (25% Ascorbic Acid Solution)

Product Code: T1681

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

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

Section 2: Hazards Identification

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Hazard Pictograms:

Signal Word: Warning

Hazard Category: Non-classified

Hazard Statements: H320-May cause eye irritation
 H335: May cause respiratory irritation
 H316: Causes mild skin irritation

Precautionary Statements: Prev: P264: Wash thoroughly after handling
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P337+313: If eye irritation persists get medical advice/attention

Storage: No specific direction

Hazards not otherwise classified: Not applicable, none known.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Water	Not classified	7732-18-5	70-80
Ascorbic Acid	Irritant	50-81-7	20-30

Section 4: First Aid Measures

Notable Exposure symptoms: May irritate mucous membrane, skin or eye tissue.

If ingested: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Obtain 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. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

Skin contact: Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

Additional Info: None

Section 5: Fire Fighting Measures

General Info: Do not enter fire area without proper protection.

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

Hazardous Decomposition Info: Not applicable.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Safety glasses and chemically protective gloves. Evacuate unnecessary personnel.

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

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 Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from strong acids. Keep in properly labeled containers.

Incompatibilities: Carbon dioxide and carbon monoxide.

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: Standard work clothes.

Eye/face protection: Safety glasses.

Skin Protection: Wear protective gloves.

Respiratory Protection: No protective equipment is needed under normal use conditions.

Additional Information: None

Additional Information: None

Additional Information: None

Substances with Exposure Limits	CAS#	ACGIH-TLV	OSHA-PEL	NIOSH
None				

Section 9: Physical and Chemical Properties

State: Liquid

Melting Point: Not avail

Freezing Point: Not avail

Odor Threshold: N/A

Color: Clear to yellow

Boiling Point/Range: Not avail

pH: Not avail

Sp Grav: Not avail

Odor: None

Water Solubility: Soluble

Evaporation rate: Not avail

Flash Point: Not avail

Part. Coeff (n-octanol/water): Not avail

Upper Flam Limits: Not avail

Lower Flam Limits: Not avail

Vapor Pressure: Not avail

VOC Content (lbs/gal): 0%

Viscosity: Not avail

Autoignition Temp: Not avail

Section 10: Stability and Reactivity

General: Stable under normal conditions.

Incompatible materials: Not available.

Decomposition products: Carbon dioxide and carbon monoxide.

Section 11: Toxicological Information

General Information: There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Toxicological Information (product): May cause eye irritation.

Likely Routes of Exposure: Skin and eye contact.

Toxicological Information (contained substances)

Hazardous substance (name)	LD50 Oral	LD50 Dermal	LD50 Oral	LD50 Dermal
Ascorbic Acid	11900 mg/kg (Rat)	>10 mg/kg	3367 mg/kg (mouse)	643 mg/kg (mouse)

Carcinogenicity: Not Classified

Mutagenicity: Not Classified

Sensitization: Not Classified

Reproductive or Developmental Effects: Not Classified

Section 12: Ecological Information

General information: Classification concerning the environment: not applicable.

Degradation / Mobility info: Not available

Bioaccumulative potential: Not available

Aquatic Toxicity: Not available

Section 13: Disposal Information

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

Container disposal: Consult waste contractor.

Other considerations: None

Section 14: Transport Information

DOT: Not regulated for transport

IMO/IMDG: Not regulated for transport

IATA: Not regulated for transport

OTHER: Inquire for further transport information.

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: Not listed.

USDOT RQ - No. DOT Marine Pollutant - No.

Clean Water Act Not listed.

Section 16: Other Information

SDS Author: Biologos, LLC

Version Date: 2/25/2017

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