



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-19005™ (0.5% Acetic Acid Solution)

Product Code: T19005

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

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

Section 2: Hazards Identification

GHS07

GHS05

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Hazard Pictograms:



Signal Word: Warning

Hazard Category: Skin corrosion/irritation Cat 2
Eye damage/eye irritation Cat 2
Corrosive to metals Cat 1

Hazard Statements: Warning: Causes skin irritation
Warning: Causes eye irritation
Warning: May be corrosive to metals

Precautionary Statements: P264: Wash thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P234: Keep only in original container
P302+352: IF ON SKIN: Wash with soap and water
P332+313: If skin irritation occurs: Get medical advice/attention
P362: Take off contaminated clothing and wash before reuse
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
P337+313: If eye irritation persists get medical advice/attention
P391: Collect spillage
P406: Store in a corrosive resistant/... container with a resistant inner liner

Hazards not otherwise classified: Not applicable, none known.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Volume %
Water	Not classified	7732-18-5	>99
Acetic Acid	Skin irritation Cat 2 Eye damage/irritation Cat 2	64-19-7	<1

Section 4: First Aid Measures

General Info: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Notable Exposure symptoms: Causes skin and eye irritation

If ingested: Rinse mouth. Do not induce vomiting. Immediately call Poison Center or seek immediate medical attention.

If inhaled: Remove to fresh air. If breathing becomes difficult, call a physician.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or persists.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

Section 5: Fire Fighting Measures

General Info: Do not breath fumes. Prevent firefighting water from entering environment.

Extinguishing Method / Equipment: Carbon dioxide (CO2), dry chemical, foam. Water spray. Sand. Firefighters should wear full protective equipment, including respiratory protection.

Hazardous Decomposition Info: Thermal decomposition may generate corrosive vapors.

Section 6: Accidental Release Measures

Personal precautions, Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear **protective equipment** appropriate protective equipment and clothing during clean-up. Avoid breathing vapors. Ventilate **and procedures:** area if easy to do so. Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Containment Large Spills: Contact trained personnel immediately. Contain actively spilling material only if **Equipment and** trained and safe to do so. Dike the spilled material, where this is possible. Utilize absorbent clay **Procedures:** or sand to contain and stop spreading material. Prevent entry to sewers and public waters.

Small Spills: If properly trained, utilize absorbent clay or sand and transfer to waste receptacles.

Cleanup Procedures: Collect all contaminated clay, media, or other cleanup materials into a waste receptacle, provided adequate ventilation is available.

Section 7: Handling and Storage

Safe Handling Do not handle until all safety precautions have been read and understood. Ensure adequate **Precautions:** ventilation. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment.

Recommendations for Store in original container in a cool and well ventilated location. Keep away from incompatible **Storage:** materials. Keep container closed when not in use.

Incompatibilities: Store away from metals, strong oxidizers and strong bases. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

General / Local exhaust ventilation should be utilized to control vapors / substances below exposure limits. **Engineering** Eye wash and safety shower facilities must be available when handling this product. **Controls:**

Work Clothing: Protective work clothing which covers skin and prevents exposures.

Eye/face protection: Wear safety goggles or face shield.

Skin Protection: Wear acid resistant gloves.

Respiratory Utilize appropriate respiratory protection if airborne levels are not maintained below exposure **Protection:** limits, or if ventilation is inadequate.

Additional Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash **Information:** hands or exposed skin after using the product.

Substances with Exposure Limits	CAS#	ACGIH-TLV	OSHA-PEL
Acetic Acid	64-19-7	10 ppm TLV 15 ppm STEL	10 ppm TWA 50 ppm IDLH

Section 9: Physical and Chemical Properties

State: Liquid	Melting Point: Not avail	Freezing Point: Not avail
Color: Clear	Boiling Point/Range: 118 C	pH: 2.5 - 3.0
Sp Grav: 1.05	Odor: vinegar	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): Not avail	Viscosity: Not avail	Autoignition Temp: Not avail

Section 10: Stability and Reactivity

General: Stable under normal conditions.

Incompatible materials: Metals, Strong Oxidizers and Strong Bases.

Decomposition products: Carbon Monoxide. Carbon Dioxide.

Section 11: Toxicological Information

General Information: Can cause eye damage/irritation and skin irritation.

Toxicological Information (product): Possible delayed and immediate effects.

Likely Routes of Exposure: Dermal and eye.

Toxicological Information (contained substances)

Hazardous substance (name)	LD50 Oral	LD50 Dermal	LC50 Inh	Irritancy:
Water	-	-	-	
Acetic Acid	3310 mg/kg (Rat)	>1060 mg/kg (Rabbit)	5620 ppm/1hr (mouse)	Irritating to eyes and skin

Carcinogenicity: Not Classified

Mutagenicity: Not Classified

Sensitization: Not Classified

**Reproductive or
Developmental
Effects:** Not Classified

Section 12: Ecological Information

General information: Do not empty into drains.

Freshwater Fish

LC50/96 hour is between
10 and 100 mg/l

**Aquatic
Toxicity:**

Degradation / Mobility info: No information available.

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 corrosive. Consult waste contractor.

Other considerations: No further information.

Section 14: Transport Information

DOT: Non-Regulated

IMO/IMDG: Non-Regulated

IATA: Non-Regulated

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

TSCA: All components listed on the TSCA 8(b) inventory.

CERCLA RQ: Acetic Acid - 5000 lb.

SARA 311/312: Product is an acute hazard.

SARA 313 Not applicable

California Prop 65 No California Prop. 65 substances.

Substances:

WHMIS: E - Corrosive Material

USDOT RQ - Yes. DOT Marine Pollutant - No.

Clean Water Act Hazardous Substance. RQ - 5000 lb.

Section 16: Other Information

SDS Author: Biologos, LLC

Version Date: 3/21/2017

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