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SAFETY DATA SHEET - 29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: BIO-1640™ (2N Hydrochloric Acid Solution)

Product Code: T1640

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

Emergency Response: INFOTRAC
(800) 535-5053

Section 2: Hazards Identification

GHS05

Hazard Pictograms:



Signal Word: Danger

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

Hazard Statements: H290: May be corrosive to metals
H315: Causes skin irritation
H319: Causes serious eye irritation

Precautionary Statements: P264: Wash thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P234: Keep only in original container
P302+350: IF ON SKIN: Gently wash with plenty of soap and water
P332+313: If skin irritation occurs: Get medical advice/attention
P306+360: IF ON CLOTHING: Rinse immediately contaminated clothing and skin
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
P337+313: If eye irritation persists get medical advice/attention
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#	Weight %
Water	Not classified	7732-18-5	>97
Hydrochloric Acid	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Damage 1, H318 STOT SE, H335 Aquatic Acute 3, H402	7647-01-0	<2.5

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 burns and eye damage.
- If ingested:** Rinse mouth. Do not induce vomiting. Immediately call Poison Center or seek immediate medical attention.
- If inhaled:** Remove to fresh air. Immediately call Poison Center or seek immediate medical attention.
- 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:** Not flammable. 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 generates corrosive vapors.

Section 6: Accidental Release Measures

- Personal precautions, protective equipment and procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing vapors. Ventilate 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 Equipment and Procedures:**
Large Spills: Contact trained personel immediately. Contain actively spilling material only if trained and safe to do so. Dike the spilled material, where this is possible. Utilize absorbent clay or sand to contain and stop spreading material.
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 Precautions:** Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment.
- Recommendations for Storage:** Store in original container in a cool and well ventilated location. Keep away from incompatible materials. Keep container closed when not in use.
- Incompatibilities:** Store away from metals, cyanides and strong bases. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

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

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

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

Substances with Exposure Limits	CAS#	ACGIH-TLV	OSHA-PEL
Hydrochloric Acid	7647-01-0	Ceiling 2 ppm	ceiling 5 ppm 7 mg/m ³

Section 9: Physical and Chemical Properties

State: Liquid	Melting Point: Not avail	Freezing Point: Not avail
Color: Clear	Boiling Point/Range: Not avail	pH: 0.1
Sp Grav: 1.1	Odor: Acidic	Water Solubility: Soluble
Evaporation rate: >1	Flash Point: Not avail	Part. Coeff (n-octanol/water): Not avail
Upper Flam Limits: Not avail	Lower Flam Limits: Not avail	Vapor Pressure: 2.3 kPa @ 20C
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, Cyanides. Strong Bases.

Decomposition products: Generates corrosive vapors. Hydrogen Chloride.

Section 11: Toxicological Information

General Information: Can cause severe eye damage and skin burns.

Toxicological Information (product): Possible delayed and immediate effects. Possible chronic effects from short and long term exposure.

Likely Routes of Exposure: Inhalation of vapors, dermal

Toxicological Information (contained substances)

Hazardous substance (name)	LD50 Oral	LD50 Dermal	LC50 Inh	Irritancy:
Water	-	-	-	

Hydrochloric Acid	238-277 mg/kg (Rat)	>5010 mg/kg (Rabbit)	1.68 mg/L (Rat) 1 h	Irritating to eyes and skin
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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	
Aquatic Toxicity:	282 mg/L LC50 96 h, Gambusia affinis mg/L LC50 48 h Leuciscusidus	Water Flea 56 mg/L EC50 72h Daphnia

Degradation / Mobility info: No information available.

Bioaccumulative potential: No information available.

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: UN 1789, Hydrochloric Acid Solution 8, PG II

IMO/IMDG: UN 1789, Hydrochloric Acid Solution 8, PG II

IATA: UN 1789, Hydrochloric Acid Solution 8, PG II

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

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

CERCLA RQ: Hydrochloric Acid - 5000 lb.

SARA 311/312: Product is an acute and chronic hazard.

SARA 313 Hydrochloric Acid CAS No. 7647-01-0, <2.0%. SARA 313 - Threshold Value 1%

**California Prop 65
Substances:** No California Prop. 65 substances.

WHMIS: D2B - Toxic Materials. 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: 12/8/2020

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