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## SAFETY DATA SHEET - 29 CFR 1910.1200

### Section 1: Company and Product Identification

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**Product Name:** Bio-Chloric™

**Product Code:** T1601

**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:** 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

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Hazardous substance (name)	Hazard Category	CAS#	Weight %
Water	Not classified	7732-18-5	>98
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

#### **Section 4: First Aid Measures**

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**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**

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

**Extinguishing Method / Equipment:** Carbon dioxide (CO<sub>2</sub>), 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**

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**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.

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**

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**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** Store in original container in a cool and well ventilated location. Keep away from incompatible **for Storage:** 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**

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**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.

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

## Section 9: Physical and Chemical Properties

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<b>State:</b> Liquid	<b>Melting Point:</b> Not avail	<b>Freezing Point:</b> Not avail
<b>Color:</b> Clear	<b>Boiling Point/Range:</b> Not avail	<b>pH:</b> 0.1
<b>Sp Grav:</b> 1.1	<b>Odor:</b> Acidic	<b>Water Solubility:</b> Soluble
<b>Evaporation rate:</b> >1	<b>Flash Point:</b> Not avail	<b>Part. Coeff (n octanol/water):</b> Not avail
<b>Upper Flam Limits:</b> Not avail	<b>Lower Flam Limits:</b> Not avail	<b>Vapor Pressure:</b> 2.3 kPa @ 20C
<b>VOC Content (lbs/gal):</b> Not avail	<b>Viscosity:</b> Not avail	<b>Autoignition Temp:</b> Not avail

## Section 10: Stability and Reactivity

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**General:** Stable under normal conditions.

**Incompatible materials:** Metals, Cyanides. Strong Bases.

**Decomposition products:** Generates corrosive vapors. Hydrogen Chloride.

## Section 11: Toxicological Information

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**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

**Carcinogenicity:** Not Classified

**Mutagenicity:** Not Classified

**Sensitization:** Not Classified

**Reproductive or Developmental Effects:** Not Classified

## Section 12: Ecological Information

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**General information:** Do not empty into drains.

	<u>Freshwater Algae</u>	<u>Freshwater Fish</u>	<u>Microtox</u>	<u>Water Flea</u>
<b>Aquatic Toxicity:</b>		282 mg/L LC50 96 h, Gambusia affinis mg/L LC50 48 h Leuciscusidus		56 mg/L EC50 72h Daphnia
<b>Degradation / Mobility info:</b>		No information available.		

**Bioaccumulative potential:** No information available.

(add or delete rows  
as necessary)

## Section 13: Disposal Information

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**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

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**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

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**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** No California Prop. 65 substances.

**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:** 8/3/2016

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