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SAFETY DATA SHEET - 29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Bio-Propyl 70™

Product Code: T1572 (70% Isopropyl Alcohol Solution)

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

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

Section 2: Hazards Identification

GHS02

GHS07

BLANK

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Hazard Pictograms:



Signal Word: Danger

Hazard Category: Serious eye damage/eye irritation Cat 2
Specific target organ tox, single exp. Cat 3 (narcotic effects)
Flammable Liq Cat 3

Hazard Statements: H319: Causes serious eye irritation
H336: May cause drowsiness or dizziness
H226: Flammable liquid and vapour

Precautionary Statements: Prev: P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P241: Use explosion-proof electrical/ventilating/light/.../equipment
P271: Use only outdoors or in a well-ventilated area
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233: Keep container tightly closed
P240: Ground/bond container and receiving equipment
P242: Use only non-sparking tools
P243: Take precautionary measures against static discharge
P280: Wear protective gloves/protective clothing/eye protection/face protection
P235: Keep cool
Resp: P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove
Storage: P403+235: Store in a well ventilated place. Keep cool

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	25-35
Isopropyl Alcohol	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H335	67-63-0	65-75

Section 4: First Aid Measures

General Info: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

Notable Exposure symptoms: Dry skin and irritation of eye tissue.

If ingested: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.

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: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

Section 5: Fire Fighting Measures

General Info: DIRECT FIRE HAZARD. Highly flammable. Gas/vapor flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapor spreads at floor level: ignition hazard.

Extinguishing Method / Equipment: Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.

Hazardous Decomposition Info: Upon combustion: CO and CO₂ are formed. Violent to explosive reaction with (strong) oxidizers. Prolonged storage/in large quantities: may form peroxides.

NFPA: Health - 1 Flammability - 3 Instability - 0 Physical hazards - N/A

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Refer to Section 8 Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Containment Equipment and Procedures: Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. 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. Take precautionary measures against static discharges.

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 skin, eyes and clothing. Avoid breathing vapors or mists. Keep away from heat, sparks and open flame. No smoking.

Recommendations for Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatibilities: Strong oxidizing agents. Acids. Chlorinated compounds.

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. Provide adequate general and local exhaust ventilation.

Work Clothing: Wear protective gloves/clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots

Eye/face protection: Tightly fitting safety goggles.

Skin Protection: Wear protective gloves/clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Additional Information: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product.

Substances with Exposure Limits	CAS#	ACGIH-TLV	OSHA-PEL	NIOSH
Hydrochloric Acid	7647-01-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m3	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m3 TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m3

Section 9: Physical and Chemical Properties

State: Liquid	Melting Point: -88°C	Freezing Point: Not avail	3 ppm
Color: Clear	Boiling Point/Range: 82°C	pH: Not avail	Odor Threshold: 8 mg/m ³
Sp Grav: 0.79	Odor: Alcohol	Water Solubility: Soluble	
Evaporation rate: 2.3	Flash Point: 12°C	Part. Coeff (n-octanol/water): Not avail	
Upper Flam Limits: 13%	Lower Flam Limits: 2%	Vapor Pressure: 44 hPa	
VOC Content (lbs/gal): 100%	Viscosity: Not avail	Autoignition Temp: 399°C	

Section 10: Stability and Reactivity

General: Stable under normal conditions.

Incompatible materials: Strong oxidizing agents. Acids. Chlorinated compounds.

Decomposition products: Carbon oxides.

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: AFTER ABSORPTION OF LARGE QUANTITIES: Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal (product): pain. Disturbed motor response. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

Likely Routes of Exposure: Inhalation; Skin and eye contact

Toxicological Information (contained substances)

Hazardous substance (name)	LD50 Oral	LD50 Dermal	LC50 Inh	Irritancy:
Water	-	-	-	
Isopropyl Alcohol	5045 mg/kg (Rat)	12870 mg/kg (Rabbit)	73 mg/L (Rat) 1 h	Not classified

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.

	<u>Freshwater Algae</u>	<u>Freshwater Fish</u>	<u>LC50 Fish</u>	<u>Water Flea EC50</u>
Aquatic Toxicity:	1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)	LC50 - 4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)	9640 mg/l (96 h; Pimephales promelas; Lethal)	> 10000 mg/l (48 h; Daphnia magna)

Degradation / Mobility info: Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No test data on mobility of the substance available.

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

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: UN1219 Isopropyl alcohol, 3, II

IMO/IMDG: UN1219 Isopropyl alcohol, 3, II

IATA: UN1219 Isopropyl alcohol, 3, II

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

TSCA: Exempt

CERCLA RQ: Not Regulated by CERCLA

SARA 311/312: Product is a chronic and fire hazard.

SARA 313 Isopropyl Alcohol, CAS No. 67-63-0, Sara 313 Threshold value 1.0%

California Prop 65 No California Prop. 65 substances.

Substances:

WHMIS: Class B Division 2 - Flammable Liquid

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: 9/23/2019

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Biologos, LLC assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.