



Bio Solutions, LLC

Hand Cleanser Liquid
with Ethanol
SAFETY DATA SHEET

SECTION 1: Identification

Product identifier

Product Name Bio San Gel

Other means of identification

Liquid Hand Cleanser with 70% Ethanol

Recommended use of the chemical and restrictions on use

This is a consumer commodity that is safe under normal and reasonable use. For specific usage guidance please refer to the product label.

Supplier's details

Name	Bio Solutions, LLC
Address	2515 Cummins Rd Houma, LA 70363 USA
Telephone	Office (985) 709-4892
email	biosolutionsllc.houma@gmail.com
Emergency phone number (s)	800-633-8253 (PERS)

SECTION 2: Hazard identification

General hazard statement

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 cfr 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

Classification of the substance or mixture

GHS classification in accordance with (US) OSHA (29 CFR 1910.1200)

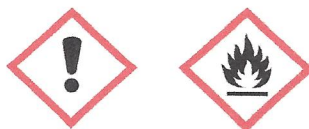
*Flammable liquids, Cat. 3

* Eye Damage/irritation, Cat. 2A

*Specific target organ toxicity (single exposure), Cat. 3

GHS label elements, including precautionary statements

Pictogram



1. Exclamation mark. 2. Flame

Signal word

Hazard statement(2)

H319
H335
H336
H226

Warning

Causes serious eye irritation
May cause respiratory irritation
May cause drowsiness or dizziness
Flammable liquid and vapor

Precautionary statement(s)

P261
P264
P271
P280
P304+P340
P305 +P351+P338

P312
P337+P313
P403+P233
P405
P501
P210
P233
P240
P241
P242
P243
P303+P361+P353

P370+P378
P403+P235

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash....thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear eye protection/face protection/protective gloves.
IN INHALED: Remove person to fresh air and keep comfortable for breathing.
IN IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Call a POISON CENTER if you feel unwell.
If eye irritation persists: Get medical advice/attention/
Store in a well-ventilated place. Keep container tightly closed.
Store locked up
Dispose of contents/container to approved disposal site.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: See Section 5.
Store in a well-ventilated place. Keep cool.

SECTION 3: Composition/information on ingredients

Mixtures

Components

Components

Water (CAS no.: 7732-18-5; EC no.: 231-791-2)

CLASSIFICATIONS: no data available, HAZARDS: No data available

Ethanol (CAS no.: 64-17-5; EC no.: 200-578-6; Index no.: 603-002-00-5)

CLASSIFICATIONS: Flammable liquids, Cat. 2. HAZARDS: H225-Highly flammable liquid and vapor.

Glycerine (CAS no.: 56-81-5, EC no.: 200-289-5)

CLASSIFICATIONS: no data available, HAZARDS: No data available

Hydrogen peroxide (CAS no.: 7722-84-1, EC no.: 231-765-0, Index no.: 008-003-00-9)

CLASSIFICATIONS: Oxidizing liquids, Cat. 1; Skin corrosion/irritation, Cat. 1A; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4 HAZARDS: H271-May cause fire or explosion, strong oxidizer, H314-Causes severe skin burns and eye damage.

Concentration
23-32 % (weight)

65-75 % (weight)

1-2 % (weight)

<1 % (weight)



SECTION 4: First-Aid measures

Description of necessary first-aid measures

General Advice

In case of accident or if you feel unwell, seek medical advice immediately

If inhaled

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Acute and delayed symptoms and effects: May cause drowsiness or dizziness. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

In case of skin contact

Wash with water and soap as a precaution. Get medical attention if symptoms occur.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.

Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

If swallowed

If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms/effects, acute and delayed
Cause serious eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary
No data available.

SECTION 5: Fire-fighting measure

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical

Carbon oxides

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Use water spray to cool unopened containers.



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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions.

Do not let product enter drains.

Methods and materials for containment and cleaning up

Eliminate all sources of ignition. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands with soap and water after handling. Container explosion may occur under fire conditions. Use explosion-proof equipment. Use only non-sparking tools. Keep away from sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge. For precautions, see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)

Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 56-81-5 (EC: 200-289-5)

Glycerol

ACHIG (USA): 10 mg/m³ TWA inhalation, Cal/OSHA: 5 mg/m³, PNOR PEL inhalation; OSHA: 5 mg/m³ PEL inhalation, 5 mg/m³ TWA inhalation

CAS: 64-17-5

Ethyl alcohol (Ethanol)

ACHIG (USA): (ST) 1000 ppm TLV inhalation; Cal/OSHA: 1000 ppm PEL inhalation, NIOSH: 1000 ppm REL inhalation; OSHA: 1900 mg/m³ PEL inhalation

CAS: 77221-84-1

Hydrogen peroxide

ACGIH (USA): 1 ppm TLV inhalation; Cal/OSHA (USA): 1 ppm PEL inhalation; NIOSH (USA): 1 ppm REL inhalation; OSHA (USA): 1.4 mg/m³ PEL inhalation

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses are recommended if splash hazard.

Skin protection

Wear protective gloves, such as nitrile gloves.

Respiratory protection

Not required under normal use conditions. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with organic vapor/acid gas cartridge and particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Thermal hazards

No data available

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Clear colorless gel
Odor	Alcohol-like
Odor Threshold	No data available
pH	6.5-7.5
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	$\geq 77^{\circ}\text{F}$
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	No data available
Upper/lower explosive limits	No data available
Vapor Pressure	No data available
Vapor density	No data available
Relative density	7.0-7.2 lb/gal typical
Solubility (ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available



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Other safety information

No data available

SECTION 10: Stability and reactivity

Reactivity

Contact with incompatible materials. Sources of ignition. Exposure to heat.

Chemical stability

Stable under normal storage conditions.

Conditions to avoid

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Glycerine: Strong bases, Strong oxidizing agents

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Hydrogen Peroxide: Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts.

Hazardous decomposition products

Glycerine: Other decomposition products-No data available

In the event of fire: see Section 5

Hydrogen Peroxide: hazardous decomposition products formed under fire conditions. Nature of decomposition products not known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Glycerol

LD50 Oral-Rat-12,600 mg/kg

Glycerol

LD50 Skin-Rabbit->10,000 mg/kg

Results: this product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ethanol: ACGIH: A3 confirmed animal carcinogen with unknown relevance to humans



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Skin corrosion/irritation

May cause skin irritation

Serious eye damage/irritation

Causes serious eye irritation

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Based on available data, classification data are not met

STOT-single exposure

May cause drowsiness or dizziness

STOT-repeated exposure

Based on available data, classification data are not met

Aspiration hazard

May be harmful if swallowed and enters airways

SECTION 12: Ecological information

Toxicity

No data available on product

Persistence and degradability

This product is believed to be readily biodegradable

Bioaccumulative potential

No data available on product

Mobility in Soil

No data available on product

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted



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Other adverse effects

No data available on product

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of an unused product.

SECTION 14: Transport information

DOT (US)

UN Number: UN1987

Class: 3

Packing Group: III

Proper Shipping Name: Alcohols, n.o.s. (Ethanol)

Reportable quantity (RQ): NA

Other Name: Bio San Gel

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

WARNING! This product contains a chemical known to the State of California to cause cancer.

CAS-No. 64-17-5: Ethanol

WARNING! This product contains a chemical known to the State of California to cause cancer.

CAS-No. 64-17-5: Ethanol

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Glycerol

CAS-No.: 56-81-5

Isopropyl alcohol

CAS number: 67-63-0

Chemical Name: Ethanol

CAS number: 64-17-5



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Hydrogen Peroxide
CAS number: 7722-84-1

New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

Glycerol
CAS-No.: 56-81-5

Water
CAS-No.: 7732-18-5

Common Name: ETHYL ALCOHOL
CAS number: 64-17-5

Water
CAS number: 7732-18-5
Hydrogen Peroxide
CAS number: 7722-84-1

Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.

Glycerol
CAS-No.: 56-81-5

Water
CAS-No.: 7732-18-5

Common Name: ETHYL ALCOHOL
CAS number: 64-17-5

Water
CAS number: 7732-18-5
Hydrogen Peroxide
CAS number: 7722-84-1

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

The following components are subject to the reporting requirements of SARA Title III, Section 302:

Hydrogen Peroxide
CAS number: 7722-84-1

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Chronic Health Hazard

Fire Hazard, Acute Health Hazard, Chronic Health Hazard



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No SARA Hazards

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The following components are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl alcohol
CAS number: 67-63-0

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16: Other information

Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Bio Solutions, LLC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even in Bio Solutions LLC has been advised of the possibility of such damages.