

Bio-Clean Products
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MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION

Trade Name: BIO-CLEAN PRODUCTS
Product Description: LIMESCALE, RUST & BUILD-UP REMOVER
DOT: COMPOUND CLEANING LIQUID

NFPA-HEALTH HAZARD - 1 (Slightly hazardous) FLAMMABILITY-0 (none) Reactivity-0 (Stable)

CAS NUMBER:

PROPRIETARY

RCRA HAZARD CLASS: (IF DISCARDED):

D001,D002

EPA PRIORITY POLLUTANTS:

NONE

SARA TITLE III (SEC 313) HAZARDOUS MATERIAL

NONE

As determined by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC),
or by the Occupational Safety and Health Administration (OSHA)

HAZARDOUS INGREDIENTS

<u>MATERIAL or COMPONENTS</u>	<u>CAS#</u>	<u>TLV (UNITS)</u>	<u>APPRX. %</u>
GLYCOLIC ACID	79-14-1	Not Determined	>2.5%
OXALIC ACID	144-62-9	Not Determined	>2.5%
CITRIC ACID	77-92-9	Not Determined	>2.5%
NONYL PHENOL POE (9)	9016-45-9	Not Determined	>.5%

NON-HAZARDOUS INGREDIENTS

POLYGLYCOL	34590-94-8	Not Determined	>2.5%
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(As established by the American Conference of Government Industrial Hygienists and/or Standard by the
Occupational Safety and Health Administration).

PHYSICAL DATA

BOILING POINT	212
SOLUBILITY IN WATER @ 25% C	SOLUBLE
SPECIFIC GRAVITY @ 25% C	1.05
VAPOR PRESSURE @ 25% C(mm Hg)	.25
VAPOR DENSITY (AIR=1)	>1
VOLATILES, %, BY VOLUME	89.5
EVAPORATION RATE (BUTYL ACETATE=1)	1.0
APPEARANCE @ 25% C	LIQUID
ODOR	SLIGHT CITRUS
FLASH POINT, % F (TAG OPEN CUP, ASTM D-1310)	NONE

BIO-CLEAN PRODUCTS

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Section One

Product and Company Information

Product Name: BIO-CLEAN GLASS SEAL

Date: Jan. 3, 2011

Chemical Family: Solvent

Application: Hard Surface Protectant

CAS#: Mixture

Manufacturer: Bio-Clean Products

Product Technical Information: 1-800-341-5417

Sacramento, CA 95864

Transportation Emergency: 1-800-341-5417

Section Two

Composition/Information on Ingredients

Component	Hazard	CAS#	OSHA PEL	ACGIH TLV	%
2-Propanol	Flammable	67-63-0	400 ppm	400 ppm	70 - 75
Naphtha (petroleum)	Combustible	64741-65-7	5 mg/m3	5 mg/m3	10 - 20
Silicone Oil		N/A	N/A	N/A	5 - 10

Section Three

Hazards Identification

Statement of Hazards: Caution: Causes eye and skin irritation. Flammable Liquid. Overexposure may cause headache, dizziness and nausea.

Fire and Explosion Hazards: May generate flammable vapors, especially in enclosed spaces. Thermal decomposition products may include carbon monoxide, carbon dioxide.

Primary Route of Exposure: Skin and eye contact are the principal routes of exposure to this product.

Skin Contact - Skin contact can cause irritation with possible redness. Severity of action is highly dependent on contact time.

Eye Contact - Eye contact may cause moderate irritation.

Ingestion - If swallowed, this product may cause irritation of mucosal linings of the mouth, throat, esophagus or stomach.

Carcinogenicity: IARC - No NTP - No OSHA - No ACGIH - No

Section Four

First Aid Measures

Skin Contact: Immediately remove contaminated shoes and clothing. Wash with soap and water for 15 minutes. Wash contaminated clothing before reuse. Get medical attention if irritation persists.

Eye Contact: Flush immediately with water and remove contact lenses, if applicable. Then flush with large quantities of running water for 15 minutes. Hold eyelids apart during flushing to ensure complete rinsing of entire surface of eye and lids with water. Get medical attention.

Ingestion: DO NOT induce vomiting. Rinse mouth with water. Then give 1-2 glasses of water and call a physician or poison control center immediately. If vomiting occurs, keep head below hips to reduce risk of aspiration. Give water again. NEVER give anything by mouth to a person who is unconscious or convulsing. Get medical attention immediately.

Medical Conditions Aggravated: No data is available that addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Note to Physician: Treat exposed patients symptomatically.

Section Five

Fire Fighting Measures

Flash Point (Method): 60° P (TCC)

Flammable Limits: Not determined.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide or foam extinguishing agents unless contraindicated by surrounding environment.

Special Fire Fighting Procedures: Prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from fire area.

All ignition sources should be extinguished. Fire fighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing. Keep containers cooled with water spray to prevent rupture from excess heat.

Fire and Explosion Hazards: No unusual fire or explosion hazards of this product are known.

Hazardous Products: Thermal decomposition of this product may generate oxides of carbon and nitrogen.

Section Six

Accidental Release Measures

Caution: If spilled, floors may be extremely slippery. Wear appropriate protective gear to avoid skin or eye contact. Extinguish all ignition sources. Dike and contain spill with inert material (sand, clay). Transfer liquid and solids to separate containers for recovery or proper disposal. Keep spill out of sewers and open bodies of water. After removal, flush area with water. Follow good industrial hygiene practices. Wash thoroughly after clean up. If uncertain about proper disposal, contact your local waste disposal provider or the regional office of the Environmental Protection Agency for guidance.

Section Seven

Handling and Storage

Handling: Avoid contact with skin or eyes. Avoid breathing vapor, spray or mist. Use product only according to label directions. If unsure about safe use, contact your supervisor immediately. Wash with soap and water after handling. Storage: Store in original container in a cool, dry, well-ventilated area away from sources of ignition. Store away from food or feed. Containers should be kept tightly closed when not in use. Keep in an area inaccessible to children.

Section Eight

Exposure Controls/Personal Protection

Personal Protective Equipment

Respiratory: Where exposure cannot be adequately controlled by general or local ventilation, use appropriate respiratory protection to prevent over exposure. An approved dust/mist respirator would be recommended.

Gloves: Use water impervious gloves, such as latex or neoprene rubber. Eye Protection: Chemical resistant goggles recommended.

Other: Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

Engineering Controls

Ventilation: In applications where sprays or mists may be generated, proper ventilation in accordance with good industrial hygiene should be provided.

Section Nine

Physical/Chemical Properties

Form	Liquid	pH	N/A	Color	None
Specific Gravity	0.750	Odor	Alcohol	Solubility	Miscible
Boiling Point	Not established	Freezing Point	<0° F	Evaporation Rate	>Water
% VOC	75 (Excluding LVP material)				