

Bio-Clean Products

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Material Safety Data Sheet

Trade Name: Bio-Clean Products
Product description: Lime scale, 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 Component</u>	<u>CAS #</u>	<u>TLV (units)</u>	<u>Approx. %</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 Governmental Industrial Hygienists and/or Standard Promulgated by the Occupational Safety and Health Administration.)

Physical Data

Boiling Point: 212F
Solubility in Water @ 25C: Soluble
Specific Gravity @ 25C: 1.05
Vapor Pressure @ 25C (mm Hg): 25
Vapor Density (Air = 1): >1
Volatiles, % , by Volume: 89.5
Evaporation Rate (Butyle Acetate = 1): 1.0
Appearance @ 25C: Liquid
Odor: Slight Citrus
Flash Point, F (tag open cup, ASTM D-1310): None

Fire and Explosion Hazard Data

Flash Point:
Flammable limits in air, %, by volume: Lower: Undetermined Upper: Undetermined

Extinguishing Media: Use Carbon Dioxide or Dry Chemical on small fire. Use foam (alcohol polymer or ordinary) and water spray for large fires.
Special Fire Fighting Procedures: Use self-contained breathing apparatus and protective clothing.
Unusual Fire & Explosion Hazards: None

Health Hazard Data

Threshold Limit Value: See Hazardous Ingredients section.
Effects of Overexposure: Contact with eyes will cause irritation. Prolonged contact with skin may cause drying or irritation.
Emergency and First Aid Procedures: For eye contact, flush with copious amounts of water. For prolonged skin contact, wash with soap and water and apply skin cream/lubricating ointment. For any emergency, obtain medical attention.

Reactivity Data

Stability:
Incompatibility (materials to avoid): Strong oxidizing material may cause irritation.
Hazardous Decomposition Products: None known
Hazardous Polymerization:
Conditions to Avoid: See above

Spill, Leak and Disposal Procedures

Action to Take for Leaks or Spills: (use appropriate safety equipment.) Use absorbent material to collect and contain for disposal. Contain large spills and pump into a suitable tank or vessel. Wash area with detergent solution and rinse thoroughly with water.
Disposal Method: All local, state and federal regulations concerning health and pollution should be reviewed to determine approved disposal procedures.

Special Handling Information

Ventilation: No special ventilation required
Protective Clothing: Clean, body-covering clothing. For drum quantities, rubber gloves, boots and apron depending upon the likely exposure or as required by company regulations.
Eye Protection: When working with drum or bulk quantities, chemical workers' goggles are recommended. When transferring drum or bulk quantities, a full face shield is recommended.
Other Protective Equipment: When handling or transferring large quantities of open or bulk material in an enclosed room, use self-contained breathing apparatus. Eye fountain and safety should be available when handling or transferring large quantities of open or bulk material.

Precautions to be Taken in Handling and Storage

Store in well ventilated areas at temperatures below 120 Deg. F and away from any ignition sources. Since emptied containers may retain product residues (vapor, liquid and/or solid). All hazard precautions given in this data sheet must be observed.

This data is furnished gratuitously in keeping with prevailing regulations and is independent of any sales of the product. Bio-Clean Products urges each customer or recipient of this MSDS to become aware of and understand the hazards associated with the product. The reader should consult references or experts in ventilation, toxicity and fire prevention as necessary to understand and use the data contained herein. While the information is believed to be correct, Bio-Clean Products accepts no responsibility for damages resulting from the publication, use or reliance upon the data contained herein without independent verification. Since the use of this

information and the conditions of the use of the product are not within the control of Bio-Clean Products, it is the user's obligation to determine and observe the conditions of the safe use of the product.

Last Revised 6/1/94 HGO