



Safety Data Sheet – 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Step 1		Product Line: Industrial	
Product Use: Industrial/Institutional/Residential: Aluminum Cleaner			
Manufacturer's Name: Bio-Kleen Products, Inc.		Website: www.biokleen.com	
Street Address: 810 Lake Street		Part Number: I23107,I23109,I23115,I23116	
City: Kalamazoo	State: MI		Product CAS: Mixture
Postal Code: 49001	Contact Telephone: 269.567.9400		Fax: 269.388.5491
SDS Effective Date: 11/11/19		MSDS Supersedes Date: 02/01/14	

SECTION 2 — HAZARD(S) IDENTIFICATION

Hazards: Ingredients as mixture are not considered hazardous under the Federal Hazard Communication Standard (29CFR 1910.1200)
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SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients (<i>specific</i>)	CAS Number Number/Weight-%
Deionized Water	7732-18-5/ 83-<90%
Ammonium bifluoride	1341-49-7/<10%
Surfactant Blend	Withheld/<5%
Other components below reportable levels	Withheld/<1%

If Chemical Name/CAS No is "proprietary" and /or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been "WITHHELD" as a trade secret.



SECTION 4 — FIRST AID MEASURES

Skin Contact: If contact occurs, flush with water. If irritation persists, see a physician
Eye Contact: If contact occurs, flush with plenty of water, If irritation persists, see a physician
Inhalation: If contact occurs, move to fresh air, If irritation persists, see a physician.
Ingestion: Get immediate medical attention. Drink large quantities of milk or water. See a physician.

SECTION 5 — FIRE FIGHTING MEASURES

NA=Not Applicable

Flammable: YES NO XX	If Flammable, under which conditions?
Flashpoint (° C) and Method: None	Auto Ignition Temperature (°C): NA
Upper Flammable Limit (% by volume): NA	Lower Flammable Limit (% by volume): NA
Means of Extinction: NA	Hazardous Combustion Products: NA
Explosion Data — Sensitivity to Impact: NA	Explosion Data — Sensitivity to Static Discharge: NA

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Ventilate area of leak or spill. Wear appropriate personal protective equipment. Small spills: Dilute and absorb. Large spills: Neutralize with soda ash or sodium bicarbonate.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment: Keep out of reach of children. Avoid contact with eyes, nose, mouth, and excessive skin contact.

Storage Requirements: Protect against physical damage. Observe all warnings and precautions listed for the product.



SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits: TLV- 3ppm	OSHA PEL: 3ppm	Other (specify): ACGIH: 6ppm
Specific Engineering Controls (such as ventilation, enclosed process): Ventilation recommended		
Personal Protective Equipment:		
Gloves X	Mask X	
Eye X	Footwear	
Clothing X	Other	
Respiratory Protection (specify type): Mask for sprayed mist.		
Protective Gloves: Rubber: If prolong contact will occur.		
Eye Protection: Goggles: If splashing could occur.		
Other Protective Clothing or Equipment: Apron if needed		

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

NA=Not Available

Physical State: Liquid	Appearance: Clear Red	Odor: Sharp
Specific Gravity:(H2O = 1)1.17	Boiling Point: 200 F	Vapor Pressure (mmHg): NA
Evaporation Rate: 75%	Vapor Density (air = 1): NA	Freezing Point (° C): 32 F 0 C
pH: 1.0	Coefficient of Water/Oil Distribution: NA	Solubility in Water: 100%

SECTION 10 — STABILITY AND REACTIVITY

NA=Not Applicable

Chemical Stability: YES XX NO	If not stable, under which conditions?
Incompatibility with Other Substances: YES XX NO	If incompatible, which substances? Metals, concrete, Glass and Ceramics.
Reactivity and under what conditions: NA	
Hazardous decomposition products: NA	



SECTION 11 — TOXICOLOGICAL INFORMATION

NK=No Known Significant Effects or Critical Hazards

Chemical Listed as Carcinogen or Potential Carcinogen by NTP, IARC, or OSHA 1910(z) (specify):	
YES	NO <input checked="" type="checkbox"/> XX
Effects of chronic exposure: No LD50 / LC50 information found relating to normal routes of occupational exposure.	
Irritancy of product: NK	
Skin sensitization: NK	Respiratory sensitization: NK
Carcinogenicity-IARC: None	NTP Carcinogenicity Anticipated: None
Reproductive toxicity: NK	Teratogenicity: NK
Embryo toxicity: NK	Mutagenicity: NK

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicity: This mixture is not expected to be toxic to aquatic life
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SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of properly according to local and federal regulations.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information:	Must have an ORMD Sticker on the Product(s) Box.		
IATA (Air)	YES	<input checked="" type="checkbox"/> XX	NO
IMO (Water)	YES	<input checked="" type="checkbox"/> XX	NO
DOT (Land)	YES	<input checked="" type="checkbox"/> XX	NO



SECTION 15 — REGULATORY INFORMATION

Sara 302 RQ: NO	TPQ: NO	Sara 313: NO	Chemical Catg: NO
CERCLA: NO	TCRA 261.33: NO	TSCA 8 (d): NO	
California Proposition 65: No California proposition 65 listed chemicals are known to be present.			
All ingredients are either listed on the TSCA & DSL inventory or are exempt			

SECTION 16 — OTHER INFORMATION

The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of Bio-Kleen Products, Inc. we will not be responsible for loss, injury or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.