



Safety Data Sheet – 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Bio-Kleen Aluma Kleen		Product Line: Marine / RV / Auto	
Product Use: Industrial/Institutional/Residential – Metal Cleaner			
Manufacturer's Name: Bio-Kleen Products, Inc.		Website: www.biokleen.com	
Street Address: 810 Lake Street		Part Number: M00105, M00107, M00109, M00115	
City: Kalamazoo	State: MI		Product CAS: Mixture
Postal Code: 49001	Contact Telephone: 269.567.9400		Fax: 269.388.5491
MSDS Effective Date: 04/01/2011		MSDS Supersedes Date: 11/10/10	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients (<i>specific</i>)	CAS Number
Ammonium Bifluoride	1341-49-7
Surfactants	
Water Softeners	

SECTION 3 — HAZARDS IDENTIFICATION

Hazards: Ingredients as mixture are not considered hazardous under the Federal Hazard Communication Standard (29CFR 1910.1200)
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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

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 product.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION



Exposure Limits: TLV- None	OSHA PEL: None	Other (specify)
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

Physical State: Liquid	Appearance: Clear Red	Odor: Mild
Specific Gravity: 1.17	Vapor Density (air = 1): NA	Vapor Pressure (mmHg): NA
Evaporation Rate: 75 %	Boiling Point: 200 F 93.3 C	Freezing Point (° C): 32 F 0 C
pH: 4.0	Coefficient of Water/Oil Distribution: NA	Solubility in Water: 100 %

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability: YES XX NO	If not stable, under which conditions?
Incompatibility with Other Substances: YES XX NO	If incompatible, which substances? Do Not use with Chlorine Bleach - Materials to Avoid: Polished Metals, Concrete, Glass, Ceramics.
Reactivity and under what conditions: NA	
Hazardous decomposition products: NA	

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SECTION 11 — TOXICOLOGICAL INFORMATION

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

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:		
IATA (Air)	YES	NO XX
IMO (Water)	YES	NO XX
DOT (Land)	YES	NO XX



SECTION 15 — REGULATORY INFORMATION

Sara 302 RQ: None	Sara 311/312: None	Sara 313: None	Chemical Catg: None
CERCLA: None	TCRA 261.33: None	TSCA 8 (d): None	TPQ: None
California Proposition 65: No California proposition 65 listed chemicals are known to be present.			

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.