



## Safety Data Sheet

Material Name: ArmaKleen M-Aero Concentrate

SDS ID: 82796

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

ArmaKleen M-Aero Concentrate

**Product Code**

6330, 6430

Formula Code 42000120

**Synonyms**

Not available.

**Product Use**

Aqueous, alkaline, concentrated cleaner that is to be diluted with water. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

**Restrictions on Use**

For professional use only.

**MANUFACTURER**

Church & Dwight  
The ArmaKleen™ Company  
469 North Harrison Street  
Princeton, NJ 08543  
Phone: (800) 332-5424  
[www.churchdwight.com](http://www.churchdwight.com)

**SUPPLIER**

Safety-Kleen Systems, Inc.  
2600 North Central Expressway  
Suite 200  
Richardson, TX 75080  
Phone: 1-800-669-5740  
[www.safety-kleen.com](http://www.safety-kleen.com)

**IMPORTER/DISTRIBUTOR**

Safety-Kleen Canada Inc.  
25 Regan Road  
Brampton, Ontario, Canada L1A 1B2  
Phone: 1-800-669-5740

**Emergency Telephone Number**

Medical: 1-888-234-1828 Chemical: 1-800-424-9300 (CHEMTREC)

**Issue Date**

March 6, 2017

**Supersedes Issue Date**

May 11, 2015

**Original Issue Date**

July 16, 1996

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with Schedule 1 of Canada's Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States**

Skin Corrosion/Irritation - Category 1A

Serious Eye Damage/Eye Irritation - Category 1

Skin Sensitization - Category 1A

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## GHS Label Elements

### Symbol(s)



### Signal Word

Danger.

### Hazard Statement(s)

Causes severe skin burns and eye damage.

May cause allergic skin reaction.

### Precautionary Statement(s)

#### Prevention

Do not breathe mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace.

#### Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor physician.

#### Storage

Store locked up. Do not store below 40°F.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

Prolonged or repeated contact may cause defatting and dermatitis. May cause respiratory tract irritation.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	72-79
1310-73-2	Sodium hydroxide	1.4-1.6
497-19-8	Disodium carbonate	2.4-2.6
1344-09-8	Sodium silicate	1.9-2.1
2687-94-7	2-Pyrrolidinone, 1-octyl-	1.9-2.1
23783-26-8	Acetic acid, hydroxyphosphono-	0.25-0.27

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## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice attention.

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

### Ingestion

IF SWALLOWED: Rinse mouth. If swallowed, do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

### Most Important Symptoms/Effects

#### Acute

Causes skin burns, eye burns, an allergic skin reaction.

#### Delayed

Prolonged or repeated contact may cause defatting and dermatitis.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, water fog,

#### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

### Special Hazards Arising from the Chemical

Negligible fire hazard.

### Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide, nitrogen oxide.

### Fire Fighting Measures

Move container from fire area if it can be done without risk. Keep storage containers cool with water spray. Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

### Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

### Methods and Materials for Containment and Cleaning Up

Spilled product is slippery. Do not touch or walk through spilled product. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, spark proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

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## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Keep away from sparks or flame. Do not breathe dust or vapors. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. Do not store below 40°F.

### Incompatible Materials

Avoid oxidizing agents and reducing agents, strong acids.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

<b>Sodium hydroxide</b>	<b>1310-73-2</b>
Alberta	2 mg/m <sup>3</sup> Ceiling
ACGIH, OSHA, NIOSH	2 mg/m <sup>3</sup> Ceiling

### ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

#### Respiratory Protection

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

#### Glove Recommendations

Where skin contact is likely, wear gloves impervious to product; use of natural rubber (latex) or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, whole body suits or other protective clothing. When product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing.

#### Protective Materials

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, gloves, lab coat or apron.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear solution	<b>Physical State</b>	Liquid
<b>Odor</b>	Mild ,soapy odor	<b>Color</b>	Tan
<b>Odor Threshold</b>	Not available	<b>pH</b>	11.6 (aqueous solution )
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	100 °C (212°F)
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	32°F (0°C)
<b>Evaporation Rate</b>	(equal to water. )	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	>100 °C (212°F)
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	17.5 mm Hg @ 68°F (20°C) (approximately)
<b>Vapor Density (air=1)</b>	Less than air	<b>Specific Gravity (water=1)</b>	1.05
<b>Water Solubility</b>	(complete )	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	8.8 lb/US gal (1050 g/L)	<b>Molecular Weight</b>	Not available
<b>Volatile Organic Compounds (As regulated)</b>	2.04 WT%; 0.175 LB/US gal; 21g/L; As per 40 CFR Part 51.100(s) Product Vapor Pressure @20°C = 17.5 mmHg VOC Vapor Pressure @38°C = 0.734 mmHg Product does not contain photochemically reactive solvents		

## Section 10 - STABILITY AND REACTIVITY

### Reactivity

No reactivity hazard is expected.

### Chemical Stability

Stable under normal temperatures and pressures.

### Possibility of Hazardous Reactions

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

### Conditions to Avoid

Avoid sparks or flame.

### Incompatible Materials

Avoid oxidizing agents, reducing agents, strong acids.

### Hazardous decomposition products

None under normal temperatures and pressures. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

### Thermal decomposition products

Carbon monoxide, nitrogen oxides (NOx), hydrogen.

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## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

May cause irritation.

#### Skin Contact

Causes burns. May cause allergic skin reaction.

#### Eye Contact

Causes eye burns.

#### Ingestion

May cause irritation.

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### Sodium hydroxide (1310-73-2)

Dermal LD50 Rabbit 1350 mg/kg

##### Disodium carbonate (497-19-8)

Oral LD50 Rat 4090 mg/kg, Dermal LD50 Mouse 2210 mg/kg, Inhalation LC50 Rat 2300 mg/m<sup>3</sup> 2 h

##### Sodium silicate (1344-09-8)

Oral LD50 Rat 1960 mg/kg

##### 2-Pyrrolidinone, 1-octyl- (2687-94-7)

Oral LD50 Rat 2050 mg/kg, Dermal LD50 Rabbit 2000 mg/kg

### Product Toxicity Data

#### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

#### Immediate Effects

Causes burns, eye burns, skin burns. May cause allergic skin reaction.

#### Delayed Effects

Prolonged or repeated contact may cause defatting and dermatitis.

#### Irritation/Corrosivity Data

Causes burns.

#### Respiratory Sensitization

Based on best current information, there is no known human sensitization associated with this product.

#### Dermal Sensitization

May cause allergic skin reaction.

#### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

#### Germ Cell Mutagenicity

Based on best current information, there is no known teratogenicity associated with this product.

Experimental evidence suggests that this product does not cause mutagenesis.

#### Tumorigenic Data

No data available

#### Reproductive Toxicity

Based on best current information, there is no known reproductive toxicity associated with this product.

#### Specific Target Organ Toxicity - Single Exposure

No target organs identified.

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## Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

## Aspiration hazard

Based on available data, the classification criteria are not met.

## Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

## Section 12 - ECOLOGICAL INFORMATION

### Component Analysis - Aquatic Toxicity

<b>Sodium hydroxide</b>	<b>1310-73-2</b>
Fish:	LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static ]
<b>Disodium carbonate</b>	<b>497-19-8</b>
Fish:	LC50 96 h Lepomis macrochirus 300 mg/L [static ]; LC50 96 h Pimephales promelas 310 - 1220 mg/L [static ]
Invertebrate:	EC50 48 h Daphnia magna 265 mg/L IUCLID
<b>Sodium silicate</b>	<b>1344-09-8</b>
Fish:	LC50 96 h Lepomis macrochirus 301 - 478 mg/L; LC50 96 h Brachydanio rerio 3185 mg/L [semi-static ]

### Invertebrate Toxicity

No additional information is available.

### Persistence and Degradability

No information available for the product.

### Bioaccumulative Potential

No information available for the product.

### Mobility

No information available for the product.

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

The U.S. EPA has not published waste numbers for this product's components. Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact ArmaKleen regarding proper recycling or disposal.

## Section 14 - TRANSPORT INFORMATION

**US DOT Information:** Not regulated for transport.

**IATA Information:** Not regulated for transport.

**TDG Information:** Not regulated for transport.

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## Section 15 - REGULATORY INFORMATION

### Canada Regulations

#### CEPA - Priority Substances List

None of this product's components are on the list.

#### Ozone Depleting Substances

None of this product's components are on the list

### Council of Ministers of the Environment - Soil Quality Guidelines

None of this product's components are on the list

### Council of Ministers of the Environment - Water Quality Guidelines

None of this product's components are on the list

### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Sodium hydroxide</b>	<b>1310-73-2</b>
CERCLA:	1000 lb final RQ ; 454 kg final RQ

### SARA Section 311/312 (40 CFR 370 Subparts B and C)

**Acute Health:** Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

### Component Analysis - Inventory

**Sodium hydroxide (1310-73-2), Disodium carbonate (497-19-8), Sodium silicate (1344-09-8), 2-Pyrrolidinone, 1-octyl- (2687-94-7), Acetic acid, hydroxyphosphono- (23783-26-8)**

US	CA
Yes	DSL

Not listed under California Proposition 65.

## Section 16 - OTHER INFORMATION

### NFPA Ratings

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

### Summary of Changes

Revision to comply with WHMIS 2015.

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and



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Health Administration; PEL- Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; WHMIS - Workplace Hazardous Materials Information System (Canada).

### **Other Information**

**This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Product Regulations (HPR)**

### **Disclaimer:**

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, ArmaKleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.