

Armakleen® M-100

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

MEDICAL:

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Armakleen® M-100

SYNONYM(S): Not available.

PRODUCT PART

NUMBERS: 6336, 6436

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 Material Safety Data Sheets for those products.

24-HOUR EMERGENCY PHONE NUMBERS

These numbers are for

emergency use only. If

you desire non-emergency 1-800-752-7869

product information,

please call a phone number listed below.

800-752-7869 1-800-468-1760

MANUFACTURER:

The ArmaKleen Company

469 North Harrison Street Princeton, NJ 08543

USA

(609) 683-5900

SUPPLIER:

Safety-Kleen Systems, Inc.

5400 Legacy Drive, Cluster II, Building 3

TRANSPORTATION (SPILL):

Plano, TX 75024

USA

(800) 669-5740

TECHNICAL INFORMATION: 1-800-332-5424

SAFETY-KLEEN MSDS FORM NUMBER: 82848

THE ARMAKLEEN COMPANY MSDS NUMBER: 961

ISSUE: December 16, 2005

ORIGINAL ISSUE: August 5, 1998 SUPERSEDES: July 14, 2004

PREPARED BY: ArmaKleen MSDS Coordinator APPROVED BY: The ArmaKleen

Company

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

	_	_		OSHA PEL		<u>ACGIH</u> TLV [®]		•	
WT%	<u>NAME</u>	<u>SYNONYM</u>	CAS NO.	<u>TWA</u>	STEL	TWA	STEL	<u>LD</u> a	<u>LC</u> b
7 to 13	Potassium Carbonate	Potash	584-08-7	N. Av.	N. Av.	10mg/m ^{3,c}	N. Av.	2000	>4.96mg/L
3 to 7	Potassium Hydroxide	Caustic potash	1310-58-3	N. Av.	N. Av.	2mg/m ³ (ceiling)	N. Av.	273	N. Av.
1 o 5	D-gluconic acid, sodium salt	Sodium gluconate	527-07-1	N. Av.	N. Av.	15mg/m ^{3,c}	N. Av.	N. Av.	N. Av.
1 to 5	Fatty acids, C9-13- neo	C9-C13-Neoacids	68938-07-8	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
1 to 5	Neo-decanoic Acid	2,2,3,5 tetramethyl hexanoic acid	26896-20-8	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
1 to 5	Silicic acid, potassium salt	Potassium silicate	1312-76-1	N. Av. ^d	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
1 to 5	Alcohol C6-C10, ethoxylated	Linear alcohol alkoxylate	68987-81-5	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
N.Av. = Not Available		^a Oral-Rat LD ₅₀ (mg/kg) ^b Inhalation LC ₅₀				^c Particulates not otherwise classified ^d manufacturer recommended TWA 5mg/m ³			
						(ceiling) respirable dust			

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear, light straw color, and mild detergent odor.

DANGER!

HEALTH HAZARDS

May burn the respiratory tract (nose, throat, and lungs), eyes, skin, and digestive tract. Contains material which may cause eye, skin, and digestive tract damage. May be harmful or fatal if swallowed.

POTENTIAL HEALTH EFFECTS

INHALATION Vapor or mist may irritate the respiratory tract (nose, throat, and lungs). Vapor or mist may cause sore throat, coughing, shortness of breath, and/or

burns to mucous membranes.

EYES: May cause irritation, redness, pain, blurred vision, burns, and/or damage. Eye

contact if not treated immediately may result in burns and permanent damage

SKIN: May cause irritation, redness, pain, blistering, and/or burns. Latent effects

are possible. Not likely to be absorbed through the skin in harmful amounts

INGESTION May be harmful or fatal if swallowed. May cause painful swallowing,

(SWALLOWING): nausea, vomiting, and/or stomach pains. May cause mouth, throat, and/or

gastrointestinal burns. Breathing product into the lungs during ingestion or

vomiting may cause lung injury and possible death.

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.

CHRONIC: Prolonged or repeated inhalation may cause burns to mucous

membranes. . Prolonged or repeated skin contact may cause

drying, cracking, redness, itching, swelling (dermatitis), and/or burns.

CANCER INFORMATION:

No known carcinogenicity.

POTENTIAL ENVIRONMENTAL EFFECTS

Not available. Also see SECTION 12: ECOLOGICAL INFORMATION.

SECTION 4: FIRST AID MEASURES

INHALATION: (BREATHING)

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if

breathing difficulty persists.

EYES: If irritation or redness from exposure to vapor develops, move away from

exposure into fresh air and flush eyes with water for 5 minutes. Upon direct

contact with liquid, immediately flush eyes with plenty of water for 15

minutes while holding eyelids apart. Get medical attention.

SKIN: Remove affected clothing and shoes. Wash skin thoroughly with soap and

water. Get medical attention if irritation or pain develops or persists.

INGESTION: (SWALLOWING)

DO NOT induce vomiting. Immediately get medical attention. Call medical emergency telephone number (1-800-752-7869) for additional information. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person

by mouth.

NOTE TO PHYSICIANS:

Treat symptomatically and supportively. Avoid gastric lavage. Treatment may vary with condition of victim and specifics of incident. Call 1-800-752-

7869.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: greater than 212°F (100°C)

FLAMMABLE LIMITS IN AIR: Not applicable.

AUTOIGNITION

TEMPERATURE: Not applicable.

HAZARDOUS COMBUSTION

PRODUCTS:

Product itself does not burn, but may decompose upon heating to produce carbon monoxide, carbon dioxide, and

oxides of potassium.

CONDITIONS OF

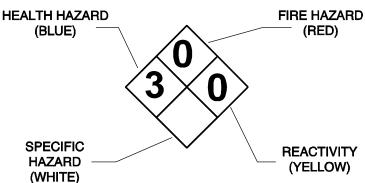
FLAMMABILITY: Product will not burn.

EXTINGUISHING MEDIA: Not applicable.

NFPA 704

HAZARD This information is intended solely for the use by individuals

trained in this system. **IDENTIFICATION:**



FIRE FIGHTING Keep storage containers cool with water spray.

A positive-pressure, self-contained breathing apparatus **INSTRUCTIONS:**

(SCBA) and full-body protective equipment are required for

fire emergencies.

FIRE AND

Heated containers may rupture. "Empty" containers may **EXPLOSION HAZARDS:**

retain residue and can be dangerous. Not sensitive to

mechanical impact or static discharge.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spilled product is slippery. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain away from surface waters and sewers. Neutralize the spill with dilute acid to lower pH. Contain spill as a liquid for possible recovery or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal.

Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

There may be additional regulatory reporting requirements associated with spills, leaks, or releases of this product.

SECTION 7: HANDLING AND STORAGE

HANDLING: When diluting, cautiously mix product and water together while stirring. Do

not breathe vapor or mist. Use in a well ventilated area. Avoid contact with

eyes, skin, clothing, and shoes.

SHIPPING AND Keep container tightly closed when not in use and during transport.

STORING: Store containers in a cool, dry place. Empty product containers may retain

product residue and can be dangerous. See SECTION 14: TRANSPORT

INFORMATION for Packing Group information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING Provide general ventilation needed to maintain concentration of

CONTROLS: 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 recommended

exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY Use NIOSH-certified, combination N-, P-, or R- series particulate filter

PROTECTION: respiratory protective equipment when concentration of vapor or mist exceeds

applicable exposure limits. Selection and use of respiratory protective

equipment should be in accordance in the USA with OSHA General Industry

Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

EYE Where eye contact is likely, wear chemical goggles; contact lens

PROTECTION: use is not recommended.

SKIN

Where skin contact is likely, wear nitrile, neoprene, or equivalent

PROTECTION: protective

protective gloves; use of polyvinyl alcohol (PVA), natural rubber, or equivalent

gloves is not recommended.

To avoid skin contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other

protective clothing.

PERSONAL HYGIENE:

Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard affected clothing, shoes, or protective equipment if they cannot be thoroughly cleaned. Discard leather articles, such as shoes, saturated with the product.

OTHER PROTECTIVE EQUIPMENT:

Where spills and splashes are likely, facilities storing or using this product should be equipped with an emergency eyewash and shower, both equipped

with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE.

APPEARANCE, AND ODOR: Liquid, clear, light straw color, and mild detergent odor.

ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not applicable.

SPECIFIC GRAVITY: 1.18 (water = 1)

DENSITY: 9.85 LB/US gal (1180 g/L)

VAPOR DENSITY: less than 1 (air = 1)

VAPOR PRESSURE: 17.5 mm Hg at 68°F (20°C) (approximately)

BOILING POINT: 212°F (100°C)

FREEZING/MELTING POINT: $32^{\circ}F(0^{\circ}C)$

pH: 13.8

EVAPORATION RATE: Less than 1 (butyl acetate = 1)

SOLUBILITY IN WATER: Complete.

FLASH POINT: greater than 212°F (100°C)

FLAMMABLE LIMITS IN AIR: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures.

INCOMPATIBILITY: Avoid acids, oxidizing agents, or reducing agents, reactive halogens, or

reactive metals.

REACTIVITY: Polymerization is not known to occur under normal temperatures and

pressures. Not reactive with water.

HAZARDOUS

DECOMPOSITION PRODUCTS:

None under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION: Based on best current information, there is no known human

sensitization associated with this product.

MUTAGENICITY: Based on best current information, there is no known mutagenicity

associated with this product.

CARCINOGENICITY: Based on best current information, there is no known carcinogenicity

as regulated by OSHA; as categorized by ACGIH A1 or A2

substances; as categorized by IARC Group 1, Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental

animals.

REPRODUCTIVE

TOXICITY:

Based on best current information, there is no known reproductive

toxicity associated with this product.

TERATOGENICITY: Based on best current information, there is no known teratogenicity

associated with this product.

TOXICOLOGICALLY

SYNERGISTIC PRODUCT(S):

Based on best current information, there are no known toxicologically synergistic products associated with this

product.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No specific data. High pH (alkalinity) of product may be harmful

to aquatic life.

OCTANOL/WATER

PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC

COMPOUNDS: Contains 0 g/I VOC as per EPA method 24...

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: 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 Safety-Kleen regarding recycling or proper disposal.

USEPA WASTE

CODE(S):

D002

Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this

product.

SECTION 14: TRANSPORT INFORMATION

DOT: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains

Potassium Hydroxide), 8, UN 3266, III

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains TDG:

P\potassium hydroxide), 8, UN 3266, III

EMERGENCY RESPONSE ERG#154.

Reference North American Emergency Response Guidebook **GUIDE NUMBER:**

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

SARA SECTIONS

This product does not contain any "extremely hazardous substances" 302 AND 304:

listed pursuant to Title III of the Superfund Amendments and

Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as

identified in 40 CFR Part 355, Appendix A and B.

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SARA SECTIONS

311 AND 312:

This product poses the following health hazards as defined in

40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of

1986 (SARA):

Immediate (Acute) Health Hazard

SARA SECTION

313:

This product does not contain toxic chemicals subject to the

requirements of section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986 and 40 CFR Part 372.

CERCLA: This product contains the following "hazardous substance" listed under

the Comprehensive Environmental Response, compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following

reportable quantity (RQ):

Material <u>CAS</u> RQ

Potassium hydroxide 1310-58-3 1000 LB (454 kg)

TSCA: All the components of this product are listed on, or are automatically

included as "naturally occurring chemical substances" on, or exempted

from the requirement to be listed on, the TSCA Inventory.

CALIFORNIA: This product does not contain detectable amounts of any chemical known

to the State of California to cause cancer.

This product does not contain detectable amounts of any chemical known

to the State of California to cause birth defects or other reproductive

harm.

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS: E

CANADIAN
ENVIRONMENTAL
PROTECTION ACT

(CEPA):

All the components of this product are listed on, or are automatically included as "substances occurring in nature" on, or are exempted from the

requirement to be listed on, the Canadian Domestic Substances List

(DSL).

SECTION 16: OTHER INFORMATION

REVISION INFORMATION: Add VOC Information.

LABEL/OTHER INFORMATION: Not available.

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

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