

TRANSPORTATION (SPILL):

Armakleen® M-GC

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Armakleen® M-GC

SYNONYM(S): Not available.

PRODUCT PART

NUMBERS: 6344, 6444

PRODUCT USE: Aqueous, alkaline, concentrated cleaner that is to be diluted with water for

the removal of grease, oil, dirt, dust, grime, and other soils from a variety of metal and non-metal surfaces. If this material 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 1-800-468-1760

MEDICAL:

product information, please call a phone number listed below.

MANUFACTURER: SUPPLIER:

The ArmaKleen Company Safety-Kleen Systems, Inc.

469 North Harrison Street 5400 Legacy Drive, Cluster II, Building 3

Princeton, NJ 08543 Plano, TX 75024

USA USA

(609) 683-5900 (800) 669-5740

TECHNICAL INFORMATION: 1-800-332-5424

SAFETY-KLEEN MSDS FORM NUMBER: 82845 ISSUE: November 20, 2003

THE ARMAKLEEN COMPANY MSDS NUMBER: 851

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PREPARED BY: ArmaKleen MSDS Coordinator APPROVED BY: The ArmaKleen

Company

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

				OSHA PEL		ACGIH TLV®			
WT%	<u>NAME</u>	<u>SYNONYM</u>	CAS NO.	<u>TWA</u>	STEL	TWA	STEL	<u>LD</u> a	<u>LC</u> b
5 to 10 5 to 10	Sodium Carbonate Alcohols C9-C11, ethoxylated	Soda Ash Linear, primary alcohol ethoxylate	497-19-8 68439-46-3	N. Av. N. Av.	N. Av. N. Av.	10mg/m ^{3,c} N. Av.	N. Av. N. Av.	>3000 >2700	N. Av. N. Av.
5 to 10	3,5,5-trimethylhexanoic acid	Isononanoic acid	3302-10-1	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
1 to 5	Silicic acid, sodium salt	Sodium silicate	1344-09-8	N. Av.	N. Av.	5mg/m ^{3,d}	N. Av.	N. Av.	N. Av.
1 to 5	Sodium hydroxide	Caustic soda	1310-73-2	2 mg/m ³	N. Av.	2mg/m ³ (ceiling)	N. Av.	N. Av.	N. Av.
1 to 5	2-pyrrolidinone, 1-octyl	N-(n-octyl)-2- pyrrolidone	2687-94-7	N. Av.	N. Av.	N. Av.	N. Av.	2050	N. Av.
1 to 5	Alcohols, C11, ethoxylated	Linear, primary alcohol ethoxylate	34398-01-1	N. Av.	N. Av.	N. Av.	N. Av.	>700	N. Av.
1 to 5	Alcohol alkoxylate	N. Av.*	N. Av.*	N. Av.	N. Av.	N. Av.	N. Av.	>2000	N. Av.
N.Av. = Not Available ^a Oral-Rat LD ₅₀ (mg/kg)						^C Particulates not otherwise classified			
*Supplier advises that this is a trade secret. New Jersey TSRN-489909-5125-PL Memory 1									lling limit as

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear, light amber color, mild detergent odor.

CAUTION!

HEALTH HAZARDS

May irritate the respiratory tract (nose, throat, and lungs), eyes, and skin.

POTENTIAL HEALTH EFFECTS

INHALATION High concentrations of vapor or mist may irritate the respiratory tract

(BREATHING): (nose, throat, and lungs).

EYES: May cause slight to moderate irritation

SKIN: May cause slight to moderate irritation. Not likely to be absorbed through the

skin in harmful amounts

INGESTION

(SWALLOWING): May cause digestive tract irritation.

MEDICAL CONDITIONS

Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility

AGGRAVATED BY EXPOSURE:

to the effects of exposure.

CHRONIC: Prolonged or repeated skin contact may cause drying, cracking, redness,

itching, and/or swelling (dermatitis).

CANCER No known carcinogenicity. For more information, see **SECTION 11**:

INFORMATION: 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 lukewarm water,

holding eyelids apart, for 15 minutes. 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 conscious, give water to drink. 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. Ingesting large amounts may cause systemic alkalosis. 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, sulfur

oxides, and nitrogen oxides.

CONDITIONS OF

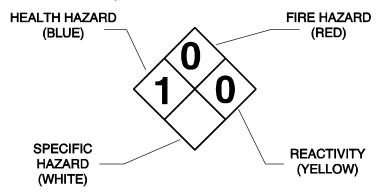
FLAMMABILITY: Product will not burn.

Not applicable. **EXTINGUISHING MEDIA:**

NFPA 704

HAZARD This information is intended solely for the use by individuals

IDENTIFICATION: trained in this system.



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. 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. Also see **SECTION 15: REGULATORY INFORMATION**.

SECTION 7: HANDLING AND STORAGE

HANDLING: Use clean tools. 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.

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 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 amber color, mild detergent odor.

ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not applicable.

SPECIFIC GRAVITY: 1.05 (water = 1)

DENSITY: 8.8 LB/US gal (1050 g/L)

VAPOR DENSITY: less than 1 (air = 1)

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

BOILING POINT: 212°F (100°C)

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

pH: 11.8

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.

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

pressures. Not reactive with water.

HAZARDOUS

DECOMPOSITION None under normal temperatures and pressures. See also **SECTION 5**:

PRODUCTS: HAZARDOUS COMBUSTION PRODUCTS.

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 data available.

OCTANOL/WATER

PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC

Contains 21.7g/L VOC (as soaps and detergents)

COMPOUNDS:

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):

This product, if discarded, is not expected to be a characteristic or listed hazardous waste. 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: Not regulated.

TDG: Not regulated.

EMERGENCY RESPONSE

Not applicable.

GUIDE NUMBER:

Reference North American Emergency Response Guidebook

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

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

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.

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 CAS RQ

Sodium hydroxide 1310-73-2 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: D2B

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: Regulatory review of content.

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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