

ArmaKleen® M-HP

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION				
PRODUCT NAME:	ArmaKleen® M-HP			
SYNONYM(S):	Not available.			
PRODUCT PART NUMBERS:	6334, 6434			
PRODUCT USE:	Aqueous, alkaline, concentrated cleaner that is diluted with water for cleaning a variety of materials in high pressure spray machines. If this product is used in combination with other products, refer to the Material Safety Data Sheets for those products.			
24-HOUR EMERGENCY PHONE NUMBERSThese numbers are for emergency use only. If you desire non-emergencyMEDICAL:TRANSPORTATION (SPILL):1-800-752-78691-800-468-1760product information, please call a phone number listed below.1-800-752-7869				
The ArmaKleen CompanySafety469 North Harrison Street5400 LPrinceton, NJ 08543Plano,USAUSA		SUPPLIER: Safety-Kleen Systems, Inc. 5400 Legacy Drive, Cluster II, Building 3 Plano, TX 75024 USA (800) 669-5740		
TECHNICAL INFORMATION: 1-800-332-5424				
SAFETY-KLEEN MSDS FORM NUMBER: 82847 THE ARMAKLEEN COMPANY MSDS NUMBER: 935		,		
ORIGINAL ISSUE: December 1996		SUPERSEDES: October 24, 2002		
PREPARED BY: ArmaKleen MSDS Coordinator		r APPROVED BY: The ArmaKleen Company		

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

				<u>OSH</u>	<u>A PEL</u>	ACGIH	TLV®		
<u>WT%</u>	<u>NAME</u>	<u>SYNONYM</u>	CAS NO.	<u>TWA</u>	<u>STEL</u>	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	>4.96ma/
1 to 5	Silicic acid, potassium salt	Potassium silicate	1312-76-1	N. Av.	N. Av.	N. Av.	N. Av.	273	N. Av.
1 o 5	3,5,5-trimethylhexanoic acid	Isononanoic acid	527-07-1	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
1 to 5	Potassium Hydroxide	Caustic potash	1310-58-3	N. Av.	N. Av.	2mg/m ³	N. Av.	273	N. Av.
1 to 5	Alcohol C6-C10, ethoxylated	Linear alcohol alkoxylate	68987-81-5	N. Av.	N. Av.	N. Áv.	N. Av.	N. Av.	N. Av.
1 to 5	Sodium hydroxide	Caustic soda	1310-73-2	2mg/m ³	N. Av.	2mg/m ³ (ceiling)	N. Av.	N. Av.	N. Av.
1 to 5	Oxirane, methyl-, polymer	Polyoxyethylene- polyoxypropylen e glycol	9003-11-6	N. Av.	N. Av.	N. Av.	N. Av.	1720	N. Av.
N.Av. = N	ot Available	^a Oral-Rat	LD ₅₀ (mg/kg)			^C Particulate	s not othe	rwise class	ified
		^b Inhalatior	n LC ₅₀						

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE

Liquid, clear, yellow, and mild detergent odor.

WARNING!

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

POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING):	High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs).
EYES:	May cause moderate to severe irritation.
SKIN:	May cause moderate irritation. Latent effects are possible. Not likely to be absorbed through the skin in harmful amounts.
INGESTION (SWALLOWING):	May cause digestive tract irritation.
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 skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

CANCERNo 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 breathin 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 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)	Immediately get medical attention. Call medical emergency telephone number (1-800-752-7869) for additional information. DO NOT induce vomiting. 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 fumes of sulfur oxides.		
CONDITIONS OF FLAMMABILITY:	Product will not burn.		
EXTINGUISHING MEDIA:	Not applicable.		
NFPA 704 HAZARD IDENTIFICATION:	This information is intended sole trained in this system.	ely for the use by individuals	
	HEALTH HAZARD (BLUE)	FIRE HAZARD (RED)	
	\sim	\backslash	

SPECIFIC

HAZARD

(WHITE)

FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

REACTIVITY

(YELLOW)

FIRE AND EXPLOSION HAZARDS:

Heated containers may rupture. "Empty" containers may retain residue and can be hazardous. 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. Also see **SECTION 15: REGULATORY INFORMATION**.

SECTION 7: HANDLING AND STORAGE

HANDLING: 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.
Store containers in a cool, dry place. Empty product containers may retain product residue and can be hazardous. See SECTION 14: TRANSPORT INFORMATION for Packing Group information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 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 use is not recommended.

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

OTHERWhere spills and splashes are likely, facilities storing or using this productPROTECTIVEshould be equipped with an emergency eyewash and shower, both equippedEQUIPMENT:with clean water, in the immediate work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR:	Liquid, clear, yellow, and mild detergent odor.
ODOR THRESHOLD:	Not available.
MOLECULAR WEIGHT:	Not applicable.
SPECIFIC GRAVITY:	1.12 (water = 1)
DENSITY: VAPOR DENSITY:	9.35 LB/US gal (1120 g/L) 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°F (0°C)
pH:	12.4
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 PRODUCTS:	None under normal temperatures and pressures. See also SECTION 5: 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:	Not available.
OCTANOL/WATER PARTITION COEFFIC	CIENT: Not available.
VOLATILE ORGANIC COMPOUNDS:	Not available.
	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. Revision 11/02 MSDS Form No. 82847 - Page 7 of 9

USEPA WASTEThis 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 Classified.

EMERGENCY RESPONSENot 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 SECTIONSThis product poses the following health hazards as defined in311 AND 312:40 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 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
Potassium hydroxide	1310-58-3	1000 LB (454 kg)
Sodium hydroxide	1310-73-2	1000 LB (454 kg)

TSCA: All the components of this product are listed 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

CANADIANENVIRONMENTALPROTECTION ACT(CEPA):All the components of this product are listed on the
Canadian Domestic Substances List (DSL).

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

Update emergency information in Section 1. Editorial change in Section 4.

LABEL/OTHER INFORMATION:

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.

Not available.

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