

ARMAKLEEN™ M-HP-2 SOLUTION

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **ARMAKLEEN M-HP-2 SOLUTION**

SYNONYM(S): Not available.

PRODUCT PART

NUMBERS: NA

PRODUCT USE: Aqueous, alkaline, cleaner used 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 NUMBER

SUPPLIER:

These numbers are for emergency use only. If you desire non-emergency

product information, please call a phone number listed below. 1-800-468-1760

MANUFACTURER:

The ArmaKleen Company Safety-Kleen Systems, Inc.

469 North Harrison Street 5360 Legacy Drive, Building 2, Suite 100

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: 820078 ISSUE: March 18, 2010

THE ARMAKLEEN COMPANY MSDS NUMBER:

935A

SUPERSEDES: NA – New Issue **ORIGINAL ISSUE:** March 18, 2010

PREPARED BY: ArmaKleen MSDS Coordinator **APPROVED BY:** The ArmaKleen

Company

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

0.7- 1.3 Potassium Carbonate Potash 584-08-7 15mg/m³ N. Av. 10mg/m³ N. Av. 2000 >4.96mg/L

N.Av. = Not Available a Oral-Rat LD₅₀ (mg/kg) c Particulates not otherwise classified

bInhalation LC₅₀

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 High concentrations of vapor or mist may irritate the respiratory tract

(BREATHING): (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 Individuals with pre-existing respiratory tract (nose, throat, and

AGGRAVATED BY lungs), eye, and/or skin disorders may have increased susceptibility

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 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 (1-800-468-1760) 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. Ingesting large amounts may cause systemic alkalosis. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760.

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.

CONDITIONS OF

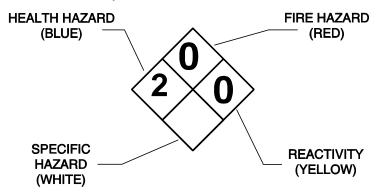
FLAMMABILITY: Product will not burn.

EXTINGUISHING MEDIA: Not applicable.

NFPA 704 HAZARD

IDENTIFICATION:

This information is intended solely for the use by individuals trained in this system.



FIRE FIGHTING Keep storage containers cool with water spray.

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

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

fire emergencies.

FIRE AND EXPLOSION HAZARDS:

Heated containers may rupture. "Empty" containers may 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. 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 Not required under normal conditions of use.

PROTECTION:

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

EQUIPMENT: 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: 1.020 (water = 1)

DENSITY: 8.5 LB/US gal (1100 g/L)

VAPOR DENSITY: less than 1 (air = 1)

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

BOILING POINT: $212^{\circ}F (100^{\circ}C)$

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

pH: 11.3

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: Not available.

OCTANOL/WATER

PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC

0.0 WT%; 0.0 LB/US gal; 0.0 g/L

COMPOUNDS: As per 40 CFR Part 51.100(s), Method 24

Product Vapor Pressure @ 20°C = approx 17.5 mmHg Does not contain photochemically reactive solvents.

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 classified.

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 does not contain any "hazardous substances" listed under

the Comprehensive Environmental Response, compensation and Liability

Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

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

(CEPA):

PROTECTION ACT 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: New MSDS for diluted product solution.

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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