

TRANSPORTATION (SPILL):

## **ARMAKLEEN™ MM-DIP Concentrate**

### MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION** 

PRODUCT NAME: ARMAKLEEN MM-DIP Concentrate

**SYNONYM(S):** Not available.

PRODUCT PART

NUMBERS: 6318

**PRODUCT USE:** Aqueous, alkaline concentrate 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

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 2600 North Central Expressway, Suite 400

Princeton, NJ 08543 Richardson, TX 75080

MEDICAL:

USA

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

**TECHNICAL INFORMATION: 1-800-332-5424** 

SAFETY-KLEEN MSDS FORM NUMBER: 82751 ISSUE: September 24, 2012

THE ARMAKLEEN COMPANY MSDS NUMBER: 805

ORIGINAL ISSUE: September 16, 1998 SUPERSEDES: March 2, 2011

PREPARED BY: ArmaKleen MSDS Coordinator APPROVED BY: The ArmaKleen

Company

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS									
				OSHA PEL		ACGIH TLV®			
<u>WT%</u>	<u>NAME</u>	<u>SYNONYM</u>	CAS NO.	<u>TWA</u>	STEL	TWA	STEL	<u>LD</u> a	<u>LC</u> b
4 to 6	Alcohols C9-C11, ethoxylated	Linear, primary alcohol ethoxylate	68439-46-3	N. Av.	N. Av.	N. Av.	N. Av.	1378	N. Av.
2 to 4	Poly(oxy-1,2- ethanediyl),.alpha hydroomega hydroxy-,mono-C8- C10-alkyl ethers, phosphates	N. Av.	68130-47-2	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 <sup>3</sup> (ceiling)	N. Av.	214	N. Av.
1 to 5	Silicic acid, sodium salt	Sodium silicate	1344-09-8	N. Av.	N. Av.	5mg/m <sup>3,</sup>	N. Av.	1153	N. Av.
0.5 to 2*	D-Gluconic acid, monosodium salt	Sodium gluconate	527-07-1	N. Av.	N. Av.	15mg/m	N. Av.	N. Av.	N. Av.
N.Av. = No *Even thou not fall und WHMIS, th	at LD <sub>50</sub> (mg/kg) on LC <sub>50</sub>	rospirable mist				nmended ce	eiling limit as		

#### **SECTION 3: HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

#### **APPEARANCE**

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

#### WARNING!

#### **HEALTH HAZARDS**

varies with each batch of product.

May burn respiratory tract (nose, throat, and lungs), eyes, skin, and digestive tract. Contains material which can cause eye, skin, and digestive tract damage.

### POTENTIAL HEALTH EFFECTS

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

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

**SKIN:** May cause irritation, redness, pain, blistering, and/or burns. Not likely to be

absorbed through the skin in harmful amounts.

**INGESTION** May be harmful or fatal if swallowed. May cause painful 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 liver, kidney, 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 mucous membrane burns.

Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis); burns, and/or damage. Prolonged or repeated skin contact may cause drying, cracking,

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

**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 eyes, 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. 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 1-800-468-1760.

#### **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, and nitrogen oxides.

**CONDITIONS OF** 

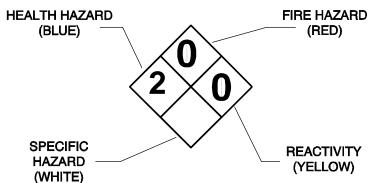
**FLAMMABILITY:** Product will not burn.

**EXTINGUISHING MEDIA:** Not applicable.

**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:** 

When diluting, cautiously mix product and water together while stirring. Do not breathe vapor or mist. Use in a well ventilated area. Avoid all contact with eyes, skin, clothing, and shoes.

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

STORING:

Do not pressurize, cut, weld, braze, solder, drill, or grind containers. 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

CONTROLS:

**ENGINEERING** 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

**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 straw color, mild detergent odor.

**ODOR THRESHOLD:** Not available.

MOLECULAR WEIGHT: Not applicable.

**SPECIFIC GRAVITY:** 1.04 (water = 1) (approximately)

**DENSITY:** 8.7 LB/US gal (1040 g/L)

**VAPOR DENSITY:** less than 1 (air = 1)

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

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

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

**pH:** 12.8

**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 (generates heat), oxidizing agents, reducing agents,

reactive halogens, or ammonium salts (may react to form ammonia gas).

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

pressures. Not reactive with water.

**HAZARDOUS** 

PRODUCTS:

**DECOMPOSITION** 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.

Also see **SECTION 15: CALIFORNIA**.

REPRODUCTIVE TOXICITY:

Based on best current information, there is no known reproductive

toxicity associated with this product.

Also see **SECTION 15: CALIFORNIA**.

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:** High pH (alkalinity) of product may be harmful to aquatic life.

OCTANOL/WATER

**PARTITION COEFFICIENT:** 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.

**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**

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

Potassium Hydroxide), 8, UN3266, III

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

Potassium Hydroxide), 8, UN3266, III

**EMERGENCY RESPONSE** 

154

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

#### **SECTION 15: REGULATORY INFORMATION**

#### **USA REGULATIONS**

### **VOLATILE ORGANIC COMPOUNDS (AS REGULATED)**

0.81 WT%; .069 LB/US gal; 8.3 g/L; As per 40 CFR Part 51.100(s)

Product Vapor Pressure @20°C = 17.5 mmHg

Product does not contain photochemically reactive solvents

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.

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> <u>RQ</u>

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: 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:** Update supplier address in Section 1.

**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.