# ARMAKLEEN<sup>™</sup> Combo Cleaner Cleaning Solution



#### MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION** 

PRODUCT NAME: ARMAKLEEN<sup>™</sup> Combo Cleaner Cleaning Solution

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

PRODUCT PART

**NUMBERS:** Not Available.

**PRODUCT USE:** Aqueous alkaline cleaning solution for the removal of grease, oil,

dirt, dust, grime, and other soils from a variety of metal and nonmetal surfaces. If this product is used in combination with other products, refer to the Material Safety Data Sheets for those

products. Concentrated cleaner must be diluted prior to use to meet

local and state VOC emission regulations.

24-HOUR EMERGENCY PHONE NUMBERS

These numbers are for MEDICAL: TRANSPORTATION (SPILL):

emergency use only. If you desire non-emergency

product information, please call a phone number listed below.

1-800-468-1760

MANUFACTURER: SUPPLIER:

The ArmaKleen Company Safety-Kleen Systems, Inc.

469 North Harrison Street 2600 North Central Expressway, Suite 400

Princeton, NJ 08543 Richardson, TX 75080

USA

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

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

SAFETY-KLEEN MSDS FORM NUMBER: 820021 ISSUE: September 26, 2012

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PREPARED BY: ArmaKleen MSDS Coordinator APPROVED BY: The ArmaKleen

Company

#### **SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

				OSHA PEL		<u>ACGIH TLV<sup>®</sup></u>			
<u>WT%</u>	<u>NAME</u>	<u>SYNONYM</u>	<u>CAS NO</u> .	<u>TWA</u>	STEL	<u>TWA</u>	STEL	<u>Ld</u> a	<u>LC</u> b
0.5 to 1.5	Sodium Carbonate	Soda Ash	497-19-8	N. Av.	N. Av.	10mg/m <sup>3,</sup>	N. Av.	>3000	N. Av.
0.1 to 1.0	Sodium hydroxide	Caustic soda	1310-73-2	2 mg/m <sup>3</sup>	N. Av.	2mg/m <sup>3</sup> (ceiling)	N. Av.	N. Av.	N. Av.
N.Av. = Not Available		<sup>a</sup> Oral-Rat LD <sub>50</sub> (mg/kg)		b Inhalation		<sup>C</sup> Particulates not otherwise classified (PNOC)			
		LC <sub>50</sub>							

#### **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, skin, and digestive tract.

#### 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

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.

**INFORMATION:** 

#### POTENTIAL ENVIRONMENTAL EFFECTS

Not available.

#### SECTION 4: FIRST AID MEASURES

INHALATION: (BREATHING)

Remove to fresh air. Get medical attention if breathing difficulty persists. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Oxygen and artificial respiration should only be administered

by qualified personnel.

**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 contact with liquid, immediately flush eyes with plenty of water for 15 minutes while holding eyelids apart. Get medical attention if irritation

develops or persists.

**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, and nitrogen oxides.

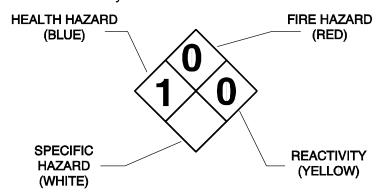
**CONDITIONS OF** 

**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 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.

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.

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

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.

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

use is not recommended. PROTECTION:

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

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 Use good personal hygiene. Wash thoroughly with soap and water after **HYGIENE:** 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.

**PROTECTIVE** 

OTHER 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, light amber color, mild detergent odor.

**ODOR THRESHOLD:** Not available.

MOLECULAR WEIGHT: Not applicable.

SPECIFIC GRAVITY: 1 (water = 1)

**DENSITY:** 8.3 LB/US gal (1000 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°F (0°C) (approximately)

**pH:** 11.6 (20% solution in water)

11.2 (10% solution in water)

**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**:

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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.

**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):

DOT:

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** 

Not regulated.

TDG: Not regulated.

**EMERGENCY RESPONSE** 

Not applicable.

**GUIDE NUMBER:** 

Reference North American Emergency Response Guidebook

**SECTION 15: REGULATORY INFORMATION** 

#### **USA REGULATIONS**

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

20% Concentration 1.7 WT%; 0.167 LB/US gal; 20.0 g/L; As per 40CFR Part 51.100(s)

Product Vapor Pressure @20°C = 17.6 mmHg

Product does not contain photochemically reactive solvents

10% Concentration 0.85 WT%; 0.084 LB/US gal; 10.0 g/L; As per 40CFR Part 51.100(s)

Product Vapor Pressure @20°C = 17.6 mmHg

Product does not contain photochemically reactive solvents

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

This product does not contain toxic chemicals subject to the

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

and Reauthorization Act of 1986 and 40 CFR Part 372.

**CERCLA:** Based on the ingredients listed in **SECTION 2**, this product contains

the following "hazardous substances" listed under the

Comprehensive Environmental Response, Compensation and

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Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantity (RQ):

CAS Material RQ

1310-73-2 1000 LB (454 kg) Sodium hydroxide

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: D<sub>2</sub>B

**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:** 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.