Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
ArmaKleen MPC Cleaning Solution

Product Code
Not available.

Synonyms
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 non-metal surfaces. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

Restrictions on Use
For professional use only.

MANUFACTURER
Church & Dwight
The ArmaKleen™ Company
469 North Harrison Street
Princeton, NJ 08543
Phone: (800) 332-5424
www.churchdwight.com

SUPPLIER
Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 200
Richardson, TX 75080
Phone: 1-800-669-5740
www.safety-kleen.com

IMPORTER/DISTRIBUTOR
Safety-Kleen Canada Inc.
25 Regan Road
Brampton, Ontario, Canada L1A 1B2
Phone: 1-800-669-5740

Emergency Telephone Number
Medical: 1-888-234-1828 Chemical: 1-800-424-9300 (CHEMTREC)

Issue Date
October 31, 2017

Supersedes Issue Date
March 6, 2017

Original Issue Date
July 9, 1999

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Canada’s Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States
Acute Toxicity - Oral - Category 4
Skin Corrosion/Irritation - Category 1A
Serious Eye Damage/Eye Irritation - Category 1
Skin Sensitization - Category 1A
Health Hazard Not Otherwise Classified. - Category 1
GHS Label Elements
Symbol(s)

Signal Word
Danger.

Hazard Statement(s)
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause allergic skin reaction.

Precautionary Statement(s)
Prevention
Do not breathe mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

Response
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Do not store below 40°F.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Statement of Unknown Toxicity
85% of the mixture consists of ingredient(s) of unknown acute toxicity.

Other hazards
May cause digestive tract irritation.

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>90-99</td>
</tr>
<tr>
<td>497-19-8</td>
<td>Disodium carbonate</td>
<td>0.95-1.05</td>
</tr>
<tr>
<td>68439-46-3</td>
<td>Alcohols, C9-11, ethoxylated</td>
<td>0.67-0.74</td>
</tr>
<tr>
<td>3302-10-1</td>
<td>Hexanoic acid, 3,5,5-trimethyl</td>
<td>0.78-0.86</td>
</tr>
<tr>
<td>1310-73-2</td>
<td>Sodium hydroxide</td>
<td>0.33-0.36</td>
</tr>
</tbody>
</table>
Section 4 - FIRST AID MEASURES

**Inhalation**
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

**Skin**
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.

**Eyes**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Ingestion**
IF SWALLOWED: Rinse mouth. If swallowed, do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

**Most Important Symptoms/Effects**
**Acute**
Harmful if swallowed. Toxic if inhaled. Causes skin burns, eye damage, allergic skin reaction. May cause respiratory irritation. May cause digestive tract irritation.

**Delayed**
Repeated exposure may cause skin dryness or cracking.

**Indication of any immediate medical attention and special treatment needed**
Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**
Use extinguishing agents appropriate for surrounding fire.

**Unsuitable Extinguishing Media**
Do not use high-pressure water streams.

**Special Hazards Arising from the Chemical**
Negligible fire hazard.

**Hazardous Combustion Products**
Decomposition and combustion materials may be toxic. Burning may produce Carbon monoxide, Nitrogen oxide, sulfur oxides.

**Advice for firefighters**
Containers may rupture or explode if exposed to heat.

**Fire Fighting Measures**
Move container from fire area if it can be done without risk. Keep storage containers cool with water spray. Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

**Special Protective Equipment and Precautions for Firefighters**
A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Section 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**
Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**
Spilled product is slippery. Do not breathe dust or vapors. Do not touch or walk through spilled product. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or
mist. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, spark proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

Environmental Precautions
Prevent material from entering drains or sewers.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Keep away from sparks or flame. Do not breathe dust or vapors. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities
Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. Do not store below 40°F.

Incompatible Materials
Strong acids, reducing agents, oxidizers.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
</tr>
<tr>
<td>Canada</td>
<td>2 mg/m3 Ceiling</td>
</tr>
<tr>
<td>ACGIH, OSHA, NIOSH</td>
<td>2 mg/m3 Ceiling</td>
</tr>
</tbody>
</table>

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
There are no biological limit values for any of this product's components.

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 applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection
Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Respiratory Protection
A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

Glove Recommendations
Where skin contact is likely, wear gloves impervious to product; use of natural rubber (latex) or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, whole body suits or other protective clothing. When product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing.
Protective Materials
Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, gloves, lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light amber clear liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>0 ºC</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100 ºC</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>(equal to water. )</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>(complete )</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>0 WT%; 0 LB/US gal; 0 g/L; As per 40 CFR</td>
</tr>
<tr>
<td>Compounds (As Regulated)</td>
<td>51.100(s) Product Vapor Pressure @20°C = 17.5 mmHg</td>
</tr>
</tbody>
</table>

Section 10 - STABILITY AND REACTIVITY

Reactivity
May react on contact with strong acids.

Chemical Stability
Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions
Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Conditions to Avoid
Avoid sparks or flame.

Incompatible Materials
Avoid oxidizing agents, reducing agents, strong acids.
Hazardous decomposition products
Oxides of Carbon, Nitrogen and Sulfur. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

Thermal decomposition products
Carbon monoxide, Nitrogen oxides (NOx). Sulfur oxides.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
May cause respiratory irritation.

Skin Contact
Causes burns. May cause allergic skin reaction.

Eye Contact
Causes eye damage.

Ingestion
Harmful if swallowed. May cause irritation or burns.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

Disodium carbonate (497-19-8)
Oral LD50 Rat 4090 mg/kg; Dermal LD50 Mouse 2210 mg/kg; Inhalation LC50 Rat 2300 mg/m3 2 h

Hexanoic acid, 3,5,5-trimethyl- (3302-10-1)
Oral LD50 Rat 1100 mg/kg; Dermal LD50 Rat >2000 mg/kg (no deaths occurred )

Sodium hydroxide (1310-73-2)
Dermal LD50 Rabbit 1350 mg/kg

Product Toxicity Data

Acute Toxicity Estimate
Not available.

Immediate Effects
Harmful if swallowed. Toxic if inhaled. Causes burns, eye damage, skin burns. May cause allergic skin reaction. May cause respiratory irritation.

Delayed Effects
Repeated exposure may cause skin dryness or cracking.

Irritation/Corrosivity Data
Causes burns. May cause digestive tract irritation.

Respiratory Sensitization
Based on best current information, there is no known human sensitization associated with this product.

Dermal Sensitization
May cause allergic skin reaction.

Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

Germ Cell Mutagenicity
Based on best current information, there is no known teratogenicity associated with this product. Experimental evidence suggests that this product does not cause mutagenesis.

Tumorigenic Data
No data available

Reproductive Toxicity
Based on best current information, there is no known reproductive toxicity associated with this product.

Specific Target Organ Toxicity - Single Exposure
No target organs identified.
Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.

Aspiration hazard
Based on available data, the classification criteria are not met.

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.

---

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Fish Toxicity</th>
<th>Invertebrate Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate</td>
<td>497-19-8</td>
<td>LC50 96 h Lepomis macrochirus 300 mg/L [static ]; LC50 96 h Pimephales promelas 310 - 1220 mg/L [static ]</td>
<td>EC50 48 h Daphnia magna 265 mg/L IUCLID</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static ]</td>
<td></td>
</tr>
<tr>
<td>Sodium silicate</td>
<td>1344-09-8</td>
<td>LC50 96 h Lepomis macrochirus 301 - 478 mg/L; LC50 96 h Brachydanio rerio 3185 mg/L [semi-static ]</td>
<td></td>
</tr>
</tbody>
</table>

Invertebrate Toxicity
No additional information is available.

Persistence and Degradability
No information available for the product.

Bioaccumulative Potential
No information available for the product.

Mobility
No information available for the product.

---

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
The U.S. EPA has not published waste numbers for this product’s components. 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 ArmaKleen regarding proper recycling or disposal.

---

Section 14 - TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT Information</td>
<td>Not regulated for transport.</td>
</tr>
<tr>
<td>IATA Information</td>
<td>Not regulated for transport.</td>
</tr>
<tr>
<td>TDG Information</td>
<td>Not regulated for transport.</td>
</tr>
</tbody>
</table>
Section 15 - REGULATORY INFORMATION

Canada Regulations
CEPA - Priority Substances List
None of this product's components are on the list.

Ozone Depleting Substances
None of this product's components are on the list

Council of Ministers of the Environment - Soil Quality Guidelines
None of this product's components are on the list

Council of Ministers of the Environment - Water Quality Guidelines
None of this product's components are on the list

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
</tr>
<tr>
<td>CERCLA:</td>
<td>1000 lb final RQ; 454 kg final RQ</td>
</tr>
</tbody>
</table>

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: No Fire: No Pressure: No Reactivity: No

Component Analysis - Inventory
Disodium carbonate (497-19-8), Hexanoic acid, 3,5,5-trimethyl-(3302-10-1) Sodium hydroxide (1310-73-2),
Water (7732-18-5), Alcohols, C9-11, ethoxylated (68439-46-3),

<table>
<thead>
<tr>
<th>US</th>
<th>CA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
</tr>
</tbody>
</table>

Not listed under California Proposition 65.

Section 16 - OTHER INFORMATION

NFPA Ratings
Health: 1 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

Summary of Changes
Revision to remove Neodecanoic acid and add Hexanoic acid in its place

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PEL-Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit;

Other Information
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada’s Hazardous Product Regulations (HPR)

Disclaimer:
User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, ArmaKleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.