

Safety Data Sheet

Material Name: ArmaKleen MPC Cleaning Solution

SDS ID: 82783

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

Safety-Kleen Systems, Inc.
42 Longwater Drive
Norwell, MA 02061-9149 U.S.A.
Phone: 1-800-669-5740
www.safety-kleen.com

SUPPLIER (in the U.S.A.)

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Norwell, MA 02061-9149
Phone: 1-800-669-5740
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SUPPLIER (in Canada)

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Emergency Telephone Number

1-800-468-1760

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May 5, 2021

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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

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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 (4.4°C).

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. Contact with heated product can cause serious thermal burns.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Component Name | Percent |
|------------|------------------------------|-----------|
| 7732-18-5 | Water | 90-99 |
| 497-19-8 | Disodium carbonate | 0.95-1.05 |
| 68439-46-3 | Alcohols, C9-11, ethoxylated | 0.67-0.74 |
| 26896-20-8 | Neodecanoic acid | 0.78-0.86 |
| 1310-73-2 | Sodium hydroxide | 0.33-0.36 |

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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. If skin irritation occurs: Call a POISON CENTER or doctor. For thermal burns caused by contact with hot product, remove affected clothing or shoes. Wash thoroughly with cool water. Apply cool-packs or ice.

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. 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. Contact with heated product can cause severe burns to the eyes and skin and can result in permanent eye damage.

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

Heated material may cause thermal burns.

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 if heated or exposed to naked flame.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Keep storage containers cool with water spray. "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.

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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 away from surface water 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.

Environmental Precautions

Prevent material from entering drains or sewers.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Keep away from naked 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 naked flame. Empty product containers may retain product residue and can be dangerous. Do not store below 40°F (4.4°C).

Incompatible Materials

Strong acids, reducing agents, oxidizers.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

| | |
|-------------------------|------------------|
| Sodium hydroxide | 1310-73-2 |
| Canada | 2 mg/m3 Ceiling |
| ACGIH, OSHA, NIOSH | 2 mg/m3 Ceiling |

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.

Skin Protection/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.

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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

| | | | |
|---------------------------------|--------------------------|---|--------------------------|
| Appearance | Light amber clear liquid | Physical State | Liquid |
| Odor | Mild | Color | Clear , light amber |
| Odor Threshold | Not available | pH | 11.5 (aqueous solution) |
| Melting Point | 0 °C | Boiling Point | 100 °C |
| Boiling Point Range | Not available | Freezing point | Not available |
| Evaporation Rate | (equal to water.) | Flammability (solid, gas) | Not available |
| Autoignition Temperature | Not available | Flash Point | >100 °C |
| Lower Explosive Limit | Not available | Decomposition temperature | Not available |
| Upper Explosive Limit | Not available | Vapor Pressure | 17.5 mmHg @20°C |
| Vapor Density (air=1) | Not available | Specific Gravity (water=1) | 1 |
| Water Solubility | (complete) | Partition coefficient: n-octanol/water | Not available |
| Viscosity | Not available | Solubility (Other) | Not available |
| Density | Not available | Molecular Weight | Not available |

0 WT%; 0 LB/US gal; 0 g/L; As per 40 CFR

51.100(s) Product Vapor Pressure @20°C = 17.5 mmHg

VOC Content is less than 25 grams/liter:

Volatile Organic Compounds (As Regulated)

This solution is explicitly listed as either an “exempted” or a “Clean Air Solvent” by the South Coast Air Quality Management District (SCAQMD) because it does not contain reactive volatile organic compounds (VOCs) that can react with sunlight and nitrogen-dioxides to create ground-based ozone (smog). Consult with your state/local air pollution control agency and their rules/regulations for specific direction in your specific area. www.aqmd.gov

Section 10 - STABILITY AND REACTIVITY

Reactivity

May react on contact with strong acids.

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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 naked flame and direct sunlight.

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 (NO_x). 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. Contact with heated product may cause serious thermal burns.

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

Neodecanoic acid (26896-20-8)

Oral LD50 Rat 2000 mg/kg; Dermal LD50 Rat >3160 mg/kg (no deaths occurred)

Inhalation LC50 Rat >3 mg/L 6 h (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. Contact with heated material may cause serious thermal burns.

Respiratory Sensitization

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

Dermal Sensitization

May cause allergic skin reaction.

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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

| | |
|---------------------------|---|
| Disodium carbonate | 497-19-8 |
| Fish: | LC50 96 h Lepomis macrochirus 300 mg/L [static]; LC50 96 h Pimephales promelas 310 - 1220 mg/L [static] |
| Invertebrate: | EC50 48 h Daphnia magna 265 mg/L IUCLID |
| Neodecanoic acid | 26896-20-8 |
| Fish: | LC50 96 h Lepomis macrochirus 32 mg/L [static] |
| Invertebrate: | EC50 48 h Daphnia magna 47.11 mg/L IUCLID |
| Sodium hydroxide | 1310-73-2 |
| Fish: | LC50 96 h Oncorhynchus mykiss 45.4 mg/L [static] |

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.

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| |
|---|
| 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 |
|---|

US DOT Information: Not regulated for transport.
IATA Information: Not regulated for transport.
TDG Information: Not regulated for transport.

| |
|--|
| 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.

| | |
|-------------------------|------------------------------------|
| Sodium hydroxide | 1310-73-2 |
| CERCLA: | 1000 lb final RQ ; 454 kg final RQ |

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

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

U.S. State Regulations

California: Not listed under California Proposition 65.

Component Analysis - Inventory

Disodium carbonate (497-19-8)

| | | | | | | | | |
|----------------|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|
| US | CA | AU | CN | EU | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 |
| Yes | DSL | Yes | Yes | EIN | Yes | Yes | Yes | No |
| KR - REACH CCA | | | MX | NZ | PH | TH-TECI | TW | VN (Draft) |
| No | | | Yes | Yes | Yes | Yes | Yes | Yes |

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Neodecanoic acid (26896-20-8)

| | | | | | | | | |
|----------------|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|
| US | CA | AU | CN | EU | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 |
| Yes | DSL | Yes | Yes | EIN | Yes | Yes | Yes | No |
| KR - REACH CCA | | | MX | NZ | PH | TH-TECI | TW | VN (Draft) |
| No | | | Yes | Yes | Yes | Yes | Yes | Yes |

Alcohols, C9-11, ethoxylated (68439-46-3)

| | | | | | | | | |
|----------------|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|
| US | CA | AU | CN | EU | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 |
| Yes | DSL | Yes | Yes | No | Yes | Yes | Yes | No |
| KR - REACH CCA | | | MX | NZ | PH | TH-TECI | TW | VN (Draft) |
| No | | | Yes | Yes | Yes | Yes | Yes | Yes |

Sodium hydroxide (1310-73-2)

| | | | | | | | | |
|----------------|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|
| US | CA | AU | CN | EU | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 |
| Yes | DSL | Yes | Yes | EIN | Yes | Yes | Yes | No |
| KR - REACH CCA | | | MX | NZ | PH | TH-TECI | TW | VN (Draft) |
| Yes | | | Yes | Yes | Yes | Yes | Yes | Yes |

Section 16 - OTHER INFORMATION

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 Products Regulations (HPR).

NFPA Ratings

Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

Summary of Changes

Update to logo and Manufacturer information.

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

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Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; WHMIS - Workplace Hazardous Materials Information System (Canada).

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.