



## Safety Data Sheet

Material Name: ArmaKleen M-RP Solution

SDS ID: 82784

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

ArmaKleen M-RP Solution

**Product Code**

Not available.

**Synonyms**

M-RP; ArmaKleen M-RP

**Product Use**

Prevents and minimizes flash rusting on ferrous alloys. 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](http://www.churchdwight.com)

**SUPPLIER (in the U.S.A.)**

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

**SUPPLIER (in Canada)**

Safety-Kleen Canada Inc.  
25 Regan Road  
Brampton, Ontario L7A 1B2  
Phone: 1-800-669-5740  
Canada

**Emergency Telephone Number**

1-800-468-1760

**Issue Date**

May 5, 2021

**Supersedes Issue Date**

March 21, 2021

**Original Issue Date**

January 31, 1997

### 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**

None needed according to classification criteria.

**GHS Label Elements**

**Symbol(s)**

None needed according to classification criteria.

**Signal Word**

None needed according to classification criteria

**Hazard Statement(s)**

None needed according to classification criteria.

**Precautionary Statement(s)**

**Prevention**

None needed according to classification criteria.

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## Response

None needed according to classification criteria.

## Storage

None needed according to classification criteria. Do not store below 40°F (4.4°C)

## Disposal

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

## Other hazards

May cause irritation of the nose, throat, lungs, and upper respiratory tract. May cause throat irritation, nausea, vomiting, and diarrhea. Repeated exposure may cause skin dryness or cracking. Contact with heated product can cause serious thermal burns.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	94-99
584-08-7	Potassium carbonate	0.34-0.38
1312-76-1	Potassium silicate	0.086-0.095
29385-43-1	Tolyltriazole	0.057-0.063
1310-58-3	Potassium hydroxide	0.086-0.095

## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed.

### Skin

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 and shoes. Wash skin thoroughly with cool water. Apply cool-packs or ice.

### Eyes

IF IN 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 liquid, immediately flush eyes with water, holding eyelids apart, for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediately medical attention.

### Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms/Effects

#### Acute

May cause skin irritation. May cause eye irritation. May cause respiratory 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.

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## 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. Avoid using a direct stream of water. Directly spraying water or foam onto hot burning product may cause frothing.

#### Special Hazards Arising from the Chemical

Heated material may cause thermal burns.

#### Hazardous Combustion Products

Burning may produce oxides of carbon.

#### Advice for firefighters

Containers may rupture if heated or exposed to continual naked flame.

#### Fire Fighting Measures

Move container from 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 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. Avoid release to the environment.

### Methods and Materials for Containment and Cleaning Up

Spilled product is slippery. 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.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Keep away from naked flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. Use in a well ventilated area. Avoid contact with eyes Skin clothing shoes.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria.

Do not store below 40°F (4.4°C). Further information: Storage. 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.

### Incompatible Materials

Oxidizers, reducing agents, acids.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

Canada and ACGIH have not developed exposure limits for any of this product's components.

### 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. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

### 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. 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, and Lab coat or apron.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light brown, clear to hazy	<b>Physical State</b>	Liquid
<b>Odor</b>	Mild	<b>Color</b>	Light brown
<b>Odor Threshold</b>	Not available	<b>pH</b>	10
<b>Melting Point</b>	0 °C (32°F)	<b>Boiling Point</b>	100 °C (212°F)
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	17.5 mmHg @20°C
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	1

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<b>Water Solubility</b>	(complete)	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	Not available
<b>Physical Form</b>	Liquid.	<b>Molecular Weight</b>	Not available
<b>Volatile Organic Compounds (As regulated)</b>	0 WT%; 0 LB/US gal; 0 g/L; As per 40 CFR Part 51.100(s) Product Vapor Pressure @20°C = 17.5 mmHg Consult with your state/local air pollution control agency and their rules/regulations for specific direction in your specific area.		

## Section 10 - STABILITY AND REACTIVITY

### Reactivity

No reactivity hazard is expected.

### Chemical Stability

Stable under normal temperatures and pressures.

### Possibility of Hazardous Reactions

Will not polymerize.

### Conditions to Avoid

Avoid naked flame and direct sunlight.

### Incompatible Materials

Oxidizers, acids, reducing agents.

### Hazardous decomposition products

None under normal temperatures and pressures.

### Thermal decomposition products

Oxides of carbon.

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

May cause respiratory irritation.

#### Skin Contact

May cause skin irritation. Repeated exposure may cause skin dryness or cracking. Contact with heated product may cause serious thermal burns.

#### Eye Contact

May cause eye irritation.

#### Ingestion

Large amounts may cause gastrointestinal disturbances.

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

### Product Toxicity Data

#### Acute Toxicity Estimate

No data available.

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## Immediate Effects

May cause skin, eye, and respiratory tract irritation. May cause irritation of the nose, throat, lungs, and upper respiratory tract. May cause throat irritation, nausea, vomiting, and diarrhea.

## Delayed Effects

Repeated exposure may cause skin dryness or cracking.

## Irritation/Corrosivity Data

May cause skin irritation. May cause eye irritation. May cause respiratory irritation. May cause irritation of the nose, throat, lungs, and upper respiratory tract. May cause throat irritation, nausea, vomiting, and diarrhea. Contact with heated material may cause serious thermal burns.

## Respiratory Sensitization

No information available for the product.

## Dermal Sensitization

No information available for the product.

## Component Carcinogenicity

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

## Germ Cell Mutagenicity

No information available for the product.

## Tumorigenic Data

No data available

## Reproductive Toxicity

No information available for the product.

## Specific Target Organ Toxicity - Single Exposure

No information on significant adverse effects.

## Specific Target Organ Toxicity - Repeated Exposure

No information on significant adverse effects.

## Aspiration hazard

No information available for the product.

## 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

No ecotoxicity data are available for this product's components.

### Persistence and Degradability

No information available for the product.

### Bioaccumulative Potential

No information available for the product.

### Mobility

No information available for the product.

### Other Toxicity

No additional information is available.

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

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.

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## 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

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### California

Not listed under California Proposition 65.

#### SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories

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

## 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: 1 Instability: 0

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

### Summary of Changes

Update to chemical emergency phone number and VOC information.

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition

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coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; 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; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

## **Other Information**

### **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.