Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
ArmaKleen Rust Preventative Solution

Product Code
Not available.

Synonyms
Not available.

Product Use
Prevent and minimize 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

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
March 6, 2017

Supersedes Issue Date
May 14, 2015

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.
Response
None needed according to classification criteria.

Storage
Do not store below 40°F.

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.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<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>94-99</td>
</tr>
<tr>
<td>584-08-7</td>
<td>Potassium carbonate</td>
<td>0.34-0.38</td>
</tr>
<tr>
<td>1312-76-1</td>
<td>Potassium silicate</td>
<td>0.086-0.095</td>
</tr>
<tr>
<td>29385-43-1</td>
<td>Tollytriazole</td>
<td>0.057-0.063</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>0.086-0.095</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. Get medical attention, if needed.

Skin
IF ON SKIN: Remove contaminated clothing and shoes. Wash with plenty of soap and water. Get medical attention, if needed.

Eyes
IF IN EYES: If irritation or redness from exposure to vapor or mist develops, move away from exposure and rinse cautiously with water for 5 minutes. Upon direct contact with liquid, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention, if needed.

Ingestion
IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most Important Symptoms/Effects
Acute
May cause skin irritation. May cause eye irritation. May cause respiratory irritation.

Delayed
No information on significant adverse effects.

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. 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
Negligible fire hazard. Avoid friction, static electricity and sparks.

Hazardous Combustion Products
Burning may produce oxides of carbon.

Advice for firefighters
Use water spray to keep fire-exposed containers cool.

Fire Fighting Measures
A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Special Protective Equipment and Precautions for Firefighters
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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. 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 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, spark proof 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 specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Keep away from heat, sparks and naked flames. 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
Additional 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 flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. Do not store below 40ºF.

Incompatible Materials
Oxidizers, reducing agents, acids.
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 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, and 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 brown, clear to hazy</td>
</tr>
<tr>
<td>Odor</td>
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<tr>
<td>Odor Threshold</td>
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</tr>
<tr>
<td>Melting Point</td>
<td>0 °C (32ºF)</td>
</tr>
<tr>
<td>Boiling Point Range</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
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</tr>
<tr>
<td>Lower Explosive Limit</td>
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<tr>
<td>Upper Explosive Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
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</tr>
<tr>
<td>pH</td>
<td>10</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100 °C (212ºF)</td>
</tr>
<tr>
<td>Freezing point</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
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<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>17.5 mmHg @20ºC</td>
</tr>
</tbody>
</table>
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  Physical Form Liquid.
Molecular Weight Not available
Volatile Organic Compounds (As regulated) 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
Product does not contain photochemically reactive solvents
Other Information No additional information is available.

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 heat, flames, sparks and other sources of ignition, moisture.

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.

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.
Immediate Effects
May cause skin irritation. May cause eye irritation. May cause respiratory irritation. May cause irritation of the nose, throat, lungs, and upper respiratory tract.

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.

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 LOILI 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
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
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.

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: No Chronic Health: No Fire: No Pressure: No Reactivity: No

Component Analysis - Inventory
No information is available.

Not listed under California Proposition 65.

Section 16 - OTHER INFORMATION

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

Summary of Changes
Revision to comply with WHMIS 2015.

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;

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:
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