

Material Name: ArmaKleen M-301 SDS ID: 82849

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name** 

ArmaKleen M-301

**Product Code** 

6338, 6438

Formula Code 42000116

**Synonyms** 

Not available.

**Product Use** 

Aqueous, alkaline concentrated cleaner that is to be diluted with water for the cleaning of ferrous materials. 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.)

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 Canada)

Safety-Kleen Canada Inc.

25 Regan Road

Brampton, Ontario L7A 1B2

Canada

Phone: 1-800-669-5740

**Emergency Telephone Number** 

Medical: 1-888-234-1828 Chemical: 1-800-255-3294 (CHEMTEL)

**Issue Date** 

January 21, 2025

**Supersedes Issue Date** 

May 5, 2025

**Original Issue Date** 

August 4, 1998

## **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

Corrosive to Metals - Category 1

Acute Toxicity - Oral - Category 4

Skin Corrosion/Irritation - Category 1A

Serious Eye Damage/Eye Irritation - Category 1

Health Hazard Not Otherwise Classified - Category 1.

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# **GHS Label Elements Symbol(s)**



#### Signal Word

Danger.

#### **Hazard Statement(s)**

May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes severe damage to the respiratory tract.

#### **Precautionary Statement(s)**

#### **Prevention**

Keep only in original packaging. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

#### Response

Absorb spillage to prevent material damage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. 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/physician. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

## Storage

Store in corrosive resistant container with a resistant inner liner. Store locked up. Do not store below  $40^{\circ}$ F (4.4°C).

#### **Disposal**

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

#### Other hazards

May cause digestive tract damage. Contact with heated product may cause serious thermal burns.

## **Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

CAS	<b>Component Name</b>	Percent
7732-18-5	Water	73-80
1310-58-3	Potassium hydroxide	14-16
3302-10-1	Hexanoic acid, 3,5,5-trimethyl-	3.8-4.2
527-07-1	Sodium gluconate	1.9-2.1
68987-81-5	Alcohols, C6-10, ethoxylated propoxylated	3.3-3.7

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584-08-7	Carbonic acid, dipotassium salt	0.95-1.05	
68439-46-3	Alcohols, C9-11, ethoxylated	2.4-2.6	

## **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. For thermal burns caused by diluted heated product, remove affected clothing and shoes.

#### 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. Causes skin burns, eye burns. Causes severe damage to the respiratory tract. May cause severe burns of the mouth, throat, and gastrointestinal tract. Contact with diluted heated product can cause severe burns to the eyes and skin and can result in permanent eye damage.

## 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. May react violently with water at normal temperature and pressure.

#### **Special Hazards Arising from the Chemical**

Heated material may cause thermal burns. May be corrosive to metals. Reacts violently with acids.

Exothermic reaction with combustible materials.

### **Hazardous Combustion Products**

Burning may produce corrosive vapors.

#### Advice for firefighters

Containers may rupture if heated or exposed to continual 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.

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## **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 touch or walk through spilled product. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Neutralize the spill with dilute acid to lower pH. 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

Store in corrosive resistant container with a resistant inner liner. Store locked up. Do not store below 40°F (4.4°C). 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 naked flame. Empty product containers may retain product residue and can be dangerous.

#### **Incompatible Materials**

Strong acids, strong bases, strong oxidizers. Generates heat when diluted with water. May be corrosive to metals.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Component Exposure Limits**

Potassium hydroxide	1310-58-3		
Canada	2 mg/m3 Ceiling		
NIOSH	2 mg/m3 Ceiling		
ACGIH:	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 splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

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#### **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, Lab coat or apron.

## **Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear light straw colored liquid	Physical State	Liquid				
Odor	Mild	Color	Clear, straw-colored				
Odor Threshold	Not available	рН	13.8				
<b>Melting Point</b>	32°F (0 °C)	<b>Boiling Point</b>	212°F (100 °C)				
<b>Boiling Point Range</b>	Not available	Freezing point	Not available				
<b>Evaporation Rate</b>	Not available	Flammability (solid, gas)	Not available				
Autoignition Temperature	Not available	Flash Point	>212°F (>100 °C)				
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available				
Upper Explosive Limit	Not available	Vapor Pressure	Not available				
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1.15				
Water Solubility	(complete )	Partition coefficient: n-octanol/water	Not available				
Viscosity	Not available	Kinematic viscosity	Not available				
Solubility (Other)	Not available	Density	Not available				
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 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**

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## Reactivity

May be corrosive to metals. May react violently with water at normal temperature and pressure. Reacts violently with acids. Exothermic reaction with combustible materials.

#### **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**

Metals, water, acids, oxidizers, reducing agents, halogens.

## Hazardous decomposition products

Corrosive vapors. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

#### Thermal decomposition products

Corrosive vapors.

## Section 11 - TOXICOLOGICAL INFORMATION

#### **Information on Likely Routes of Exposure**

#### Inhalation

Causes severe damage to the respiratory tract.

#### **Skin Contact**

Causes burns. Contact with heated material may cause serious thermal burns.

#### **Eye Contact**

Causes eye burns.

#### Ingestion

Harmful if swallowed. May cause severe burns of the mouth, throat, and gastrointestinal tract.

## **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:

#### Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

## Potassium hydroxide (1310-58-3)

Oral LD50 Rat 284 mg/kg

#### Hexanoic acid, 3,5,5-trimethyl- (3302-10-1)

Oral LD50 Rat 1100 mg/kg; Dermal LD50 Rat >2000 mg/kg (no deaths occurred)

## Carbonic acid, dipotassium salt (584-08-7)

Oral LD50 Rat 1870 mg/kg

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

Oral LD50 Rat 1400 mg/kg

## **Product Toxicity Data**

#### **Acute Toxicity Estimate**

Dermal	> 2000 mg/kg						
Oral	790.986 mg/kg						

#### **Immediate Effects**

Harmful if swallowed. Causes burns, eye burns, skin burns. Causes severe damage to the respiratory tract.

#### **Delayed Effects**

No information on significant adverse effects.

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#### Irritation/Corrosivity Data

Causes burns. Causes severe damage to the respiratory tract. Contact with heated material may cause thermal burns.

### **Respiratory Sensitization**

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

#### **Dermal Sensitization**

No information on significant adverse effects.

#### **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 significant target effects reported.

## **Specific Target Organ Toxicity - Repeated Exposure**

No significant target effects reported.

## **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**

Carbonic acid, dipotassium salt	584-08-7				
Invertebrate:	LC50 48 h Ceriodaphnia dubia 630 mg/L EPA				

## **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**

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:**

Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Potassium Hydroxide)

Hazard Class: 8 UN/NA #: UN3266 Packing Group: II Required Label(s): 8

#### **IATA Information:**

Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Potassium Hydroxide)

Hazard Class: 8 UN#: UN3266 Packing Group: II Required Label(s): 8

#### **TDG Information:**

Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Potassium Hydroxide)

Hazard Class: 8 UN#: UN3266 Packing Group: II Required Label(s): 8

## **International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Potassium hydroxide	1310-58-3		
IBC Code:	Category Y (solution )		
Alcohols, C9-11, ethoxylated	68439-46-3		
IBC Code:	Category Y		

## 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.

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## **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.

Potassium hydroxide	1310-58-3					
CERCLA:	1000 lb final RQ ; 454 kg final RQ					

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

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

Not listed under California Proposition 65.

**Component Analysis - Inventory** 

Water (7732-18-5)

US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	E	IN	Yes	No		Yes	No
KR - REACH CCA		. 1	MX	NZ	РН	TH- TECI	TW	VN (Draft)		
No	No			Yes	Yes	Yes	Yes	Yes	Yes	

## Potassium hydroxide (1310-58-3)

US	CA	AU	CN	I E	U	JP - ENCS	JP - ISHL	,	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Ye	es E	IN	Yes	Yes		Yes	No
KR - REACH CCA		<b>A</b>	MX	NZ	PH	TH- TECI	TW	VN (Draft)		
Yes			Yes	Yes	Yes	Yes	Yes	Yes		

## Hexanoic acid, 3,5,5-trimethyl- (3302-10-1)

US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	s E	IN	Yes	Yes		Yes	No
KR - REACH CCA		1	MX	NZ	РН	TH- TECI	TW	VN (Draft)		
No	No			No	Yes	Yes	Yes	Yes	Yes	

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## Sodium gluconate (527-07-1)

US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL	,	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	E	IN	Yes	Yes		Yes	No
KR - REACH CCA		<b>\</b> ]	MX	NZ	PH	TH- TECI	TW	VN (Draft)		
No		,	Yes	Yes	Yes	Yes Yes Ye		Yes		

## Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)

US	CA	AU	CN	Е	U	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	NSL	Yes	Yes	N	О	No No		Yes	No	
KR - REACH CCA			X I	MX	NZ	РН	TH- TECI	TW	VN (Draft)	
No				Yes	Yes	No	No	Yes	Yes	

## Carbonic acid, dipotassium salt (584-08-7)

US	CA	AU	CN	N E	EU	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Ye	es E	EIN	Yes	Yes		Yes	No
KR - REACH CCA				MX	NZ	РН	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 No		No		Yes	No	
KR -	KR - REACH CCA			M	X	NZ	РН	TH- TECI	TW	VN (Draft)	
No				Ye	es	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).

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### **NFPA Ratings**

Health: 3 Fire: 0 Instability: 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; 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 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<sup>TM</sup> - 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.

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