

## Safety Data Sheet

Material Name: ArmaKleen™ M-HP-2 Concentrate

SDS ID: 82846

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

ArmaKleen™ M-HP-2 Concentrate

**Product Code**

6313, 6335

**Product Use**

Aqueous, alkaline, concentrated cleaner that to be is diluted with water for cleaning a variety of materials in high pressure spray machines. Concentrated cleaner must be diluted prior to use to meet local, state, and provincial VOC emission regulations. 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](http://www.safety-kleen.com)

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

Safety-Kleen Systems, Inc.  
42 Longwater Drive  
Norwell, MA 02061-9149  
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, Canada L7A 1B2  
Phone: 1-800-669-5740

**Emergency Telephone Number**

Medical: 1-888-234-1828 Chemical: 1-800-255-3924 (CHEMTEL)

**Issue Date**

January 21, 2025

**Supersedes Issue Date**

May 5, 2021

**Original Issue Date**

December 1, 1996

### 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  
Acute Toxicity - Dermal - Category 4  
Acute Toxicity - Inhalation - Vapor - Category 4  
Skin Corrosion/Irritation - Category 1  
Serious Eye Damage/Eye Irritation - Category 1  
Skin Sensitization - Category 1A  
Specific Target Organ Toxicity - Repeated Exposure - Category 2  
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, in contact with skin, if inhaled.
- Causes severe skin burns and eye damage.
- May cause allergic skin reaction.
- May cause damage to organs through prolonged or repeated exposure.
- Causes severe damage to the respiratory tract.

### Precautionary Statement(s)

#### Prevention

Use only outdoors or in a well-ventilated area. Do not breathe mist/vapors/spray. Wear protective clothing, gloves, and eye 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 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. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a doctor/physician.

#### Storage

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.

#### Other Hazards

Contact with diluted heated product can cause serious thermal burns.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	61-68
584-08-7	Potassium carbonate	7.3-8.0
1300-72-7	Sodium xylene sulfonate	9.5-10.5
3302-10-1	Hexanoic acid, 3,5,5-trimethyl-	2.6-2.8
68987-81-5	Alcohols, C6-10, ethoxylated propoxylated	3.8-4.1

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1310-58-3	Potassium hydroxide	1.0-1.1
23783-26-8	Acetic acid, hydroxyphosphono-	0.4-0.5

## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

### Skin

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical attention. Wash contaminated clothing before reuse. For thermal burns caused by diluted heated product, remove affected clothing and 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. Get immediate medical attention.

### Ingestion

IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Get immediate medical attention.

### Most Important Symptoms/Effects

#### Acute

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if swallowed, inhaled, or in contact with skin. Causes severe damage to the respiratory tract. Contact with diluted heated product can cause severe burns to the eyes and skin and can result in permanent eye damage.

#### Delayed

May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

### 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 during intended use. Heated diluted product may cause thermal burns.

### Hazardous Combustion Products

Oxides of carbon, sulfur, and nitrogen

### 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. 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. Handle in accordance with good industrial hygiene and safety procedures. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not ingest. Wear protective gloves/clothing and eye/face protection.

### Conditions for Safe Storage, Including any Incompatibilities

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 from naked flame. Empty product containers may retain product residue and can be dangerous.

### Incompatible Materials

Acids, oxidizers, reducing agents

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

<b>Sodium hydroxide</b>	<b>1310-73-2</b>
Canada	2 mg/m3 Ceiling
ACGIH:	2 mg/m3 Ceiling
NIOSH:	2 mg/m3 Ceiling SK: DIR(COR) (Apr 2011 ) 10 mg/m3 IDLH
OSHA (US):	2 mg/m3 TWA
<b>Potassium hydroxide</b>	<b>1310-58-3</b>
ACGIH:	2 mg/m3 Ceiling
NIOSH:	2 mg/m3 Ceiling
Canada	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

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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.

### 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 diluted product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing.

### 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.

### 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>	Clear, yellow liquid	<b>Physical State</b>	Liquid
<b>Odor</b>	Mild	<b>Color</b>	Clear , yellow
<b>Odor Threshold</b>	Not available	<b>pH</b>	11.8
<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>	>100 °C (>212°F)
<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>	<1	<b>Specific Gravity (water=1)</b>	1.1
<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

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**Solubility (Other)** Not available      **Density** Not available

**Physical Form** Liquid      **Molecular Weight** Not available

**Volatile Organic Compounds (As regulated)**

0.0 WT%; 0.0 g/L; 0.0 LB/US gal; As per 40 CFR Part 51.100(s). Product Vapor Pressure @20°C = 17.5 mmHg  
This product, when diluted, 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](http://www.aqmd.gov)

## Section 10 - STABILITY AND REACTIVITY

**Reactivity**

Will not occur under normal conditions. May react on contact with strong acids.

**Chemical Stability**

Stable under normal temperatures and pressures.

**Possibility of Hazardous Reactions**

Hazardous polymerization is not expected to occur.

**Conditions to Avoid**

Avoid naked flame and direct sunlight.

**Incompatible Materials**

acids, oxidizers, reducing agents

**Hazardous decomposition products**

Oxides of carbon, nitrogen, sulfur.

## Section 11 - TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**

**Inhalation**

Harmful if inhaled. Causes severe damage to the respiratory tract.

**Skin Contact**

Harmful in contact with skin. Causes skin burns. Contact with diluted heated product may cause serious thermal burns.

**Eye Contact**

Causes eye burns.

**Ingestion**

Harmful if swallowed. May cause burns, nausea, vomiting, sore throat, stomach pain.

**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 carbonate (584-08-7)**

Oral LD50 Rat 1870 mg/kg

**Sodium xylene sulfonate (1300-72-7)**

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Oral LD50 Rat 1000 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 )

**Potassium hydroxide (1310-58-3)**

Oral LD50 Rat 284 mg/kg

**Product Toxicity Data**

**Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Inhalation - Vapor	~11 mg/L
Oral	~970 mg/kg

**Immediate Effects**

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes severe damage to the respiratory tract.

**Delayed Effects**

May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

**Irritation/Corrosivity Data**

Causes severe skin burns and eye damage. Causes severe damage to the respiratory tract. Contact with diluted heated material may cause burns.

**Respiratory Sensitization**

No information available for the product.

**Dermal Sensitization**

May cause an allergic skin reaction.

**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 target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

Not expected to be an aspiration hazard.

**Medical Conditions Aggravated by Exposure**

No information available for the product.

**Section 12 - ECOLOGICAL INFORMATION**

**Component Analysis - Aquatic Toxicity**

<b>Potassium carbonate</b>	<b>584-08-7</b>
Invertebrate:	LC50 48 h Ceriodaphnia dubia 630 mg/L EPA

**Persistence and Degradability**

No information available for the product.

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## 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.

## 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.

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) reporting categories

Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Potassium hydroxide	1310-58-3	Yes	Yes	Yes	Yes	Yes

### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Not listed under California Proposition 65.

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### Component Analysis - Inventory Water (7732-18-5)

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

### Potassium carbonate (584-08-7)

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

### Sodium xylene sulfonate (1300-72-7)

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

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

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			No	Yes	Yes	Yes	Yes	Yes

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

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

### Potassium hydroxide (1310-58-3)

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

### Acetic acid, hydroxyphosphono- (23783-26-8)

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

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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; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; 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; TH-TECI - Thailand - FDA Existing Chemicals Inventory (TECI); 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.