


# Safety Data Sheet

Section 1. Identification	
<b>Product Identifier</b>	<b>Dairy Kleen</b>
	<b>Version: 7</b> <b>Effective Date: 10 July, 2017</b>
<b>Other Means Of Identification</b>	Not applicable
<b>Initial Supplier Identifier</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
<b>Recommended Use and Restrictions On Use</b>	Descaling agent. No restrictions
<b>Product Family</b>	Inorganic Acids
<b>24 Hour Emergency</b>	Canutec (613) 996-6666

Section 2. Hazard Identification	
<b>Hazard Classification</b>	
<b>Physical Hazards</b>	Corrosive To Metals – Category 1
<b>Health Hazards</b>	Acute Toxicity (Dermal) – Category 5 Skin Corrosion/Irritation – Category 1B Eye Damage/ Irritation - Category 1
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	May be corrosive to metals. May be harmful in contact with skin. Causes sever skin burns and serious eye damage.
<b>Precautionary Prevention Statement</b>	Keep only in original packaging. Do not inhale product dust or mist. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye and face protection.
<b>Precautionary Response Statement</b>	Absorb spillage to prevent material damage. Call a doctor if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower if on clothing. Wash contaminated clothing before reuse.

## Safety Data Sheet

	<p>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment Do not induce vomiting unless directed by medical personnel.</p>
<b>Precautionary Storage Statement</b>	Store in a corrosion-resistant / container with a resistant inner liner locked up.
<b>Precautionary Disposal Statement</b>	Dispose of contents/container in accordance with local regulations
<b>Other Hazards</b>	None

<b>Section 3. Composition / Information on Ingredients</b>			
<b>Chemical Name</b>	<b>Common Name or Synonyms</b>	<b>CAS NO. and Other Unique Identifiers</b>	<b>% by weight</b>
Phosphoric Acid	Orthophosphoric acid	7664-38-2	30 - 50
Balance of ingredients are considered non-hazardous and constitute a proprietary blend			

<b>Section 4. First-Aid Measures</b>	
<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Seek medical attention.
<b>Skin Contact</b>	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Rinse out mouth, and give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	May cause severe burns by all routes of exposure.
<b>Immediate Medical Attention and Special Treatment</b>	Treat symptomatically.

## Safety Data Sheet

Section 5. Fire-Fighting Measures	
<b>Suitable and Unsuitable Extinguishing Media</b>	Use extinguishing media suitable for the surrounding fire.
<b>Hazardous Combustion Products</b>	Oxides of phosphorus.
<b>Specific Hazards Arising From The Product</b>	Not applicable.
<b>Special Protective Equipment and Precautions For Fire-Fighters</b>	<p>Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.</p> <p>Reacts with metals to generate flammable hydrogen gas. Containers exposed to intense heat from fires should be cooled with water to prevent vapour build-up which could result in container rupture. Use water spray or fog to reduce or direct vapours.</p>

Section 6. Accidental Release Measures	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Chemical resistant (rubber / neoprene) gloves, coveralls and footwear
<b>Environmental Precautions</b>	Do not allow spilled material to enter surface drains and watercourses.
<b>Methods and Materials for Containment and Clean-Up</b>	Stop the leak at the source. Contain spilled material using dikes. Only persons with protective equipment should be allowed in the area. Pump up spilled material and place in a suitable container for disposal. Cover contaminated area with soda ash or sodium bicarbonate/ flaked lime (50:50 mix). Mix to a slurry – add water if needed. Scoop up slurry for disposal. Wash area with soda ash solution.

Section 7. Handling and Storage	
<b>Precautions For Safe Handling</b>	Handle with care. To dilute, add product to water slowly to prevent boiling and splattering.
<b>Conditions For Safe Storage</b>	Store in a cool dry place. Keep containers closed when not in use. Empty containers may contain hazardous residues.

Section 8. Exposure Controls / Personal Protection				
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH *</b>
Phosphoric Acid	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>		1000 mg/m <sup>3</sup>

## Safety Data Sheet

	(CAD AB OEL) (CAD AB OEL) * Immediately Dangerous to Life and Health
<b>Exposure Controls</b>	Local exhaust ventilation
<b>Appropriate Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Individual Protective Measures</b>	
<b>Eye / Face Protection</b>	Safety glasses.
<b>Skin Protection</b>	Chemical resistant (rubber/ neoprene) gloves, coveralls and footwear
<b>Respiratory Protection</b>	Air purifying respirator fitted with cartridges for acid vapours and mists

### Section 9. Physical and Chemical Properties

<b>Appearance</b>	Clear. colourless liquid
<b>Odour</b>	No odour
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	1
<b>Flash Point</b>	> 100 °C
<b>Boiling Point and Boiling Range</b>	No data
<b>Melting Point and Freezing Point</b>	No data
<b>Evaporation Rate</b>	No data
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper and Lower Flammability or Explosive Limits</b>	No data
<b>Vapour Pressure</b>	No data
<b>Vapour Density</b>	No data
<b>Relative Density</b>	1.315
<b>Solubility</b>	Soluble
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Auto-Ignition Temperature</b>	No data
<b>Decomposition Temperature</b>	No data
<b>Viscosity</b>	No data

### Section 10. Stability and Reactivity

<b>Reactivity</b>	Reacts with metals and bases.
<b>Chemical Stability</b>	Stable

## Safety Data Sheet

<b>Possibility of Hazardous Reactions</b>	Reaction with some incompatible materials – aldehydes / epoxides, can cause polymerization
<b>Conditions to Avoid</b>	None known
<b>Incompatible Materials</b>	Avoid contact with: fluorine, strong oxidizing agents, strong bases, metals, sulphur trioxide, phosphorus pentoxide
<b>Hazardous Decomposition Products</b>	This material will react with metals to produce hydrogen gas, which can form explosive mixtures in air.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric Acid	1530mg/kg (Rat)	2730mg/kg (Rabbit)	850 mg/m <sup>3</sup> (Rat)
<b>Likely Routes of Exposure</b>			
<b>Skin:</b>	May cause severe skin burns.		
<b>Eyes:</b>	May cause severe burns and even permanent blindness.		
<b>Inhalation:</b>	May cause severe irritation of the respiratory tract. Breathing this material may be harmful or fatal.		
<b>Ingestion:</b>	May cause burns and destroy tissue in the mouth, throat and digestive tract. Symptoms may include irritation of the digestive tract – nausea, vomiting and diarrhoea– abdominal pain and vomiting of blood. Ingestion may be fatal.		
<b>Acute Toxicity Estimates (ATE)</b>	No data		
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	No data		
<b>Aspiration Toxicity</b>	No data		
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	No data		
<b>Skin Corrosion / Irritation</b>	Corrosive		
<b>Serious Eye Damage / Irritation</b>	Corrosive		
<b>Respiratory or Skin Sensitization</b>	Not a sensitizer		
<b>Carcinogenicity</b>	This substance has no evidence of carcinogenic properties.		
<b>Reproductive Toxicity</b>			
- <b>Sexual Function and Fertility</b>	No data		



# Safety Data Sheet

- <b>Development of Offspring</b>	No data
- <b>Effects on or via Lactation</b>	No data
<b>Germ Cell Mutagenicity</b>	No data
<b>Interactive Effects</b>	No data
<b>Other Information</b>	No data

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	Phosphoric acid: LC50: 3 – 3.5 mg/L (Gambusia affinis)
<b>Persistence and Degradability</b>	Readily degradable
<b>Bioaccumulative Potential</b>	Not available
<b>Biodegradability</b>	Not available
<b>Mobility in Soil</b>	Not available
<b>Special Remarks</b>	Material is practically not toxic to fish
<b>Other Adverse Effects</b>	No data

<b>Section 13. Disposal Considerations</b>	
<b>Disposal Considerations</b>	Dispose of in accordance with local, provincial and federal regulations.

<b>Section 14. Transport Information</b>	
<b>UN Number</b>	UN1805
<b>UN Proper Shipping Name</b>	Phosphoric acid solution
<b>Transport Hazard Class(es)</b>	8
<b>Packaging Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	154

<b>Section 15. Regulatory Information</b>	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt

## Safety Data Sheet

<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None

<b>Section 16. Other Information</b>	
<b>NFPA Rating</b>	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
<b>HMIS Rating</b>	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
<b>Prepared by:</b>	Chemfax Products Ltd., Technical Department
<b>Date Prepared:</b>	22 July, 2013
<b>Date of Latest Revision:</b>	10 July, 2017
<p><b>Disclaimer</b>            Notice to reader</p> <p>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p> <p>Chemfax Products Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.</p>	