


Safety Data Sheet

Section 1. Identification		
Product Identifier	Dairy Kleen	Version: 8 Effective Date: 15 January 2021
Other Means Of Identification	Not applicable	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Descaling agent. No restrictions	
Product Family	Inorganic Acids	
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST	

Section 2. Hazard Identification	
Hazard Classification	
Physical Hazards	Corrosive To Metals – Category 1
Health Hazards	Acute Toxicity (Dermal) – Category 5 Skin Corrosion/Irritation – Category 1B Eye Damage/ Irritation - Category 1
Signal Word	Danger
Hazard Statement	May be corrosive to metals. May be harmful in contact with skin. Causes severe skin burns and serious eye damage.
Precautionary Prevention Statement	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.
Precautionary Response Statement	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.

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	<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>
Precautionary Storage Statement	Store in a corrosion-resistant / container with a resistant inner liner locked up.
Precautionary Disposal Statement	Dispose of contents/container in accordance with local regulations
Other Hazards	None

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

Section 4. First-Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	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.
Most Important Symptoms and Effects Both Acute and Delayed	May cause severe burns by all routes of exposure.
Immediate Medical Attention and Special Treatment	Treat symptomatically.

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Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for the surrounding fire.
Hazardous Combustion Products	Oxides of phosphorus.
Specific Hazards Arising From The Product	Not applicable.
Special Protective Equipment and Precautions For Fire-Fighters	<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	
Personal Precautions, Protective Equipment and Emergency Procedures	Chemical resistant (rubber / neoprene) gloves, coveralls and footwear
Environmental Precautions	Do not allow spilled material to enter surface drains and watercourses.
Methods and Materials for Containment and Clean-Up	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	
Precautions For Safe Handling	Handle with care. To dilute, add product to water slowly to prevent boiling and splattering.
Conditions For Safe Storage	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				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Phosphoric Acid	1 mg/m ³	3 mg/m ³		1000 mg/m ³

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

Section 9. Physical and Chemical Properties	
Appearance	Clear. colourless liquid
Odour	No odour
Odour Threshold	Not applicable
pH	1 (in a 10% solution)
Flash Point	> 100 °C
Boiling Point and Boiling Range	No data
Melting Point and Freezing Point	No data
Evaporation Rate	No data
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	No data
Vapour Density	No data
Relative Density	1.315
Solubility	Soluble
Partition co-efficient, n-Octanol/Water	No data
Auto-Ignition Temperature	No data
Decomposition Temperature	No data
Viscosity	No data

Section 10. Stability and Reactivity	
Reactivity	Reacts with metals and bases.
Chemical Stability	Stable

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Possibility of Hazardous Reactions	Reaction with some incompatible materials – aldehydes / epoxides, can cause polymerization
Conditions to Avoid	None known
Incompatible Materials	Avoid contact with: fluorine, strong oxidizing agents, strong bases, metals, sulphur trioxide, phosphorus pentoxide
Hazardous Decomposition Products	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
Phosphoric Acid	1530mg/kg (Rat)	2730mg/kg (Rabbit)	850 mg/m ³ (Rat)
Likely Routes of Exposure			
Skin:	May cause severe skin burns.		
Eyes:	May cause severe burns and even permanent blindness.		
Inhalation:	May cause severe irritation of the respiratory tract. Breathing this material may be harmful or fatal.		
Ingestion:	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.		
Acute Toxicity Estimates (ATE)	No data		
STOT (Specific Target Organ Toxicity) – Single Exposure	No data		
Aspiration Toxicity	No data		
STOT (Specific Target Organ Toxicity) – Repeated Exposure	No data		
Skin Corrosion / Irritation	Corrosive		
Serious Eye Damage / Irritation	Corrosive		
Respiratory or Skin Sensitization	Not a sensitizer		
Carcinogenicity	This substance has no evidence of carcinogenic properties.		
Reproductive Toxicity			
- Sexual Function and Fertility	No data		



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

Section 12. Ecological Information

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

Section 13. Disposal Considerations

Disposal Considerations	Dispose of in accordance with local, provincial and federal regulations.
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Section 14. Transport Information

UN Number	UN1805
UN Proper Shipping Name	Phosphoric acid solution
Transport Hazard Class(es)	8
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	154

Section 15. Regulatory Information

Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
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TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	22 July, 2013
Date of Latest Revision:	15 January 2021
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