CHEMFAX™
Manufacturer of Specialty Chemicals

Safety Data Sheet

Section 1. Identification		
Product Identifier	**Kling On**	**Version: 7** **Effective Date: 12 November, 2016**
Other Means of Identification	None	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Urinal descaler. No restrictions	
Product Family	Blend	
24 Hour Emergency	Canutec (613) 996-6666	

Section 2. Hazard Identification	
Hazard Classification	
Physical Hazards	Corrosive To Metals – Category 1
Health Hazards	Acute Toxicity (Oral) – Category 4 Skin Corrosion/Irritation – Category 1 Eye Damage/Irritation - Category 1 Specific Target Organ Toxicity – Single Exposure – Category 3
Signal Word	Danger
Hazard Statement	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and serious eye damage. May cause respiratory irritation; or may cause drowsiness or dizziness.
Precautionary Prevention Statement	Keep only in original packaging. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dusts or mists. Wear protective gloves, protective clothing eye and face protection. Use only outdoors or in a well ventilated area.
Precautionary Response Statement	Absorb spillage to prevent material damage.

	IF SWALLOWED: Call a doctor if you feel unwell. 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 clothes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. Specific treatment: do not induce vomiting unless directed by medical personnel. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor if you feel unwell.
Precautionary Storage Statement	Store locked up in a well-ventilated place. Keep container tightly closed.
Precautionary Disposal Statement	Dispose of contents/containers 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
Hydrochloric Acid	Muriatic acid	7647-01-0	10 - 30
Balance of ingredients are considered non-hazardous and constitute a proprietary blend			

Section 4. First-Aid Measures

Eye Contact	Flush eyes with water for 30 minutes. If irritation and pain persists continue washing with water. Do not transport unless flushing can be continued. Seek immediate medical attention.
Skin Contact	Flush area with water for at least 30 minutes. Seek immediate medical attention. Do not transport until irritation ceases, unless flushing can be continued during transport.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention. CPR and oxygen should only be administered by trained persons.
Ingestion	Do NOT induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention. If conscious wash mouth out with water

Most Important Symptoms and Effects Both Acute and Delayed	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
Immediate Medical Attention and Special Treatment	Treatment should be based on sound judgment of the physician and individual reactions of the patient.

Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for the surrounding fire.
Hazardous Combustion Products	When heated to decomposition, emits toxic hydrogen chloride fumes and will react with water or steam to produce heat and toxic and corrosive fumes. Thermal oxidative decomposition produces toxic fumes and explosive hydrogen gas.
Specific Hazards Arising From the Product	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire. 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.

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Chemical resistant (rubber / neoprene) gloves, coveralls and footwear. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	Do not allow spilt material to enter surface drains and watercourses.
Methods and Materials for Containment and Clean-Up	Isolate spill and stop leak. Restrict area to required and protected persons only. Ventilate area. Neutralize with lime slurry, limestone or soda ash. Flush area with water to remove residues.

Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care, corrosive material. Empty containers may contain hazardous residues. Never add water to this material. Do not mix with materials such as Bleach.
Conditions For Safe Storage	Store in a cool, dry, well ventilated area. Avoid direct sunlight. Keep containers closed when not in use. Drums may require venting to release internal pressure.

Section 8. Exposure Controls / Personal Protection				
Control Parameters	**TWA: 8 Hr**	**STEL: 15 min**	**Ceiling**	**IDLH ***
Hydrochloric Acid	2 ppm ACGIH		5ppm OPSHA	50 ppm
	* Immediately Dangerous to Life and Health			
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Use only under a chemical fume hood or with adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.			
Individual Protective Measures	Not normally required under normal conditions of use. If exposure limits are exceeded:			
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	Viscous brown coloured liquid
Odour	Pungent odour
Odour Threshold	Not available.
pH	0.1 (1 N aqueous solution)
Flash Point	> 93 ºC
Boiling Point and Boiling Range	IBP 48 ºC
Melting Point and Freezing point	Not determined
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	14.1 kPa
Vapour Density	Not determined

Relative Density	1.082
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 with liberation of hydrogen gas. Reacts violently with bases.
Chemical Stability	Stable
Possibility of Hazardous Reactions	Reaction with some incompatible materials – aldehydes / epoxides, can cause polymerisation
Conditions to Avoid	Heat and direct sunlight
Incompatible Materials	Strong bases, metals, metal oxides, hydroxides, amines, carbonates, alkalis, cyanides, sulfides, sulphites, formaldehyde
Hazardous Decomposition Products	Will not decompose under normal conditions of use

Section 11. Toxicological Information

Component Toxicity	**LD50 Oral**	**LD50 Dermal**	**LC50 Inhalation**
Hydrochloric Acid	700mg/kg (Rat)	>5010mg/kg (Rabbit)	3124 ppm (Rat)

Likely Routes of Exposure	
Skin:	May cause severe skin burns.
Eyes:	May cause severe burns and even permanent blindness.
Inhalation:	May be corrosive to the respiratory passage. Vapours may cause pulmonary oedema (fluid in the lungs). Symptoms can be delayed for several hours.
Ingestion:	Harmful if swallowed.
Acute Toxicity Estimates (ATE)	> 2000 mg/kg (oral and dermal) > 20 mg/l (inhalation)
STOT (Specific Target Organ Toxicity) – Single Exposure	Respiratory system
Aspiration Toxicity	No data

STOT – (Specific Target Organ Toxicity) -Repeated Exposure	Respiratory system
Skin Corrosion / Irritation	Causes burns
Serious Eye Damage / Irritation	Causes serious eye damage
Respiratory or Skin Sensitization	No data
Carcinogenicity	This substance has no evidence of carcinogenic properties.
Reproductive Toxicity	
- **Sexual Function and Fertility**	No data
- **Development of Offspring**	No data
- **Effects on or via Lactation**	No data
Germ Cell Mutagenicity	No data
Interactive Effects	No data
Other Information	Not applicable

Section 12. Ecological Information	
Ecotoxicity	Hydrochloric acid LC50: 282 mg/L (Gambusia affinis) LC50: 3.6 mg/L (Lepomis macrochirus)
Persistence and Degradability	Unlikely to persist in the environment
Bioacumulative Potential	Not available
Biodegradability	Not available
Mobility in Soil	Not available
Other Adverse Effects	Harmful to aquatic life at low concentrations. Toxicity is primarily associated with pH.

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents/containers in accordance with local regulations.

Section 14. Transport Information	
UN Number	UN1789
UN Proper Shipping Name	Hydrochloric acid solution

Transport Hazard Class(es)	8
Packaging Group	III
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	157 for Hydrochloric acid

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
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:	January 6, 2012
Date of Latest Revision:	12 November, 2016

Disclaimer

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