



Safety Data Sheet

Section 1. Identification	
Product Identifier	Anti Scale
	Version: 4 Effective Date: 4 December 2020
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	Boiler treatment chemical. Do not mix with acid.
Product Family	Blend
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST

Section 2. Hazard Identification	
Hazard Classification	  Skin Corrosion/Irritation – Category 1A Acute Toxicity(Oral) - Category 4
Signal Word	Danger
Hazard Statement	Causes severe skin burns and eye damage. Harmful if swallowed
Precautionary Prevention Statement	Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective eye, face, gloves and clothing. Do not eat, drink or smoke when using this product
Precautionary Response Statement	IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a doctor if you feel unwell IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Precautionary Storage Statement	Store locked up

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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
Potassium hydroxide	Caustic Potash	1310-58-3	1 - 20
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 skin is damaged seek immediate medical attention. 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	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	Product is corrosive, causes burns by all exposure routes. Possible perforation of stomach and oesophagus should be investigated.
Immediate Medical Attention and Special Treatment	Treat Symptomatically

Section 5. Fire-Fighting Measures

Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for surrounding fire
Hazardous Combustion Products	Oxides of nitrogen and carbon, potassium oxide and hydrogen
Specific Hazards Arising From The Product	Corrosive to metals and tissue.
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.

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Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves (neoprene), glasses, chemical resistant apron or coveralls. Soak up with inert absorbent material. Do not use metal tools.
Environmental Precautions	Prevent entry of spilled materials into sewers or watercourses. Dike if required.
Methods and Materials for Containment and Clean-Up	Isolate area, absorb spilt product with absorbent material, and place in an appropriate container for disposal. Residues should be neutralized with a dilute solution of acetic acid, then wash the area thoroughly with water.

Section 7. Handling and Storage	
Precautions for Safe Handling	Handle with care. Empty containers may contain corrosive residues
Conditions for Safe Storage	Store in a cool, area, keep container closed at all times

Section 8. Exposure Controls / Personal Protection				
Control Parameters Potassium Hydroxide	TWA: 8 Hr	STEL: 15 min	Ceiling 2 mg/m ³ (ACGIH)	IDLH *
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Ensure adequate ventilation			
Individual Protective Measures	If exposure limits are exceeded:			
Eye and Face Protection	Safety goggles required.			
Skin Protection	Nitrile gloves and long sleeve clothing			
Respiratory Protection	Follow OSHA regulation 29CFR1910.134			

Section 9. Physical and Chemical Properties	
Appearance	Colourless
Odour	No odour
Odour Threshold	Not available.
pH	14
Flash Point	> 100 °C
Boiling Point and Boiling Range	No data



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Melting Point and Freezing Point	No data
Evaporation Rate	No data
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	Not applicable
Vapour Pressure	No data
Vapour Density	No data
Relative Density	1.12
Solubility	Soluble
Partition co-efficient, n-Octanol/Water	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available

Section 10. Stability and Reactivity	
Reactivity	None known
Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	Extreme heat
Incompatible Materials	Avoid contact with acids, metals, organic halogen compounds, and nitro compounds
Hazardous Decomposition Products	Heat and possibility of hydrogen gas

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Hydroxide	273mg/kg (Rat)	No data	No data
Likely Routes of Exposure			
Skin:	May cause minor burns and severe irritation.		
Eyes:	May cause permanent corneal damage or chronic eye inflammation		
Inhalation:	May cause minor burns or irritation to the respiratory system.		
Ingestion:	May cause pain, digestive tract disturbances, and burns to the throat, mouth and oesophagus.		
Acute Toxicity Estimates (ATE)	Not available		



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STOT (Specific Target Organ Toxicity) – Single Exposure	Not available
Aspiration Toxicity	Not available
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not available
Skin Corrosion / Irritation	Not available
Serious Eye Damage / Irritation	Not available
Respiratory or Skin Sensitization	Not available
Carcinogenicity	Not available
Reproductive Toxicity	Not available
- Sexual Function and Fertility	Not available
- Development of Offspring	Not available
- Effects on or via Lactation	Not available
Germ Cell Mutagenicity	Not available
Interactive Effects	Not available
Other Information	Not available

Section 12. Ecological Information	
Ecotoxicity	Potassium hydroxide LC50: Mosquito fish = 80 mg/L
Persistence and Degradability	Will not persist
Bioacumulative Potential	Not available
Biodegradability	Not available
Mobility in Soil	Not available
Other Adverse Effects	None known

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	UN1814
UN Proper Shipping Name	Potassium Hydroxide Solution
Transport Hazard Class(es)	8
Packaging Group	II
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
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-1/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-1/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	20 December, 2011
Date of Latest Revision:	4 December 2020
Disclaimer	
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