

Material Safety Data Sheet

Section 1 - Product Information

Product Identifier: Aqua-Cleanze Descaler		WHMIS Classification (optional): Class E	
Product Use: Descaling agent			
Manufacturer's Name: ClearTech		Supplier's Name: West Heat Industries Limited	
Street Address: 340 Saulteaux Cres		Street Address: 1680 Church Ave	
City: Winnipeg	Province: MB	City: Winnipeg	Province: MB
Postal Code: R3J 3T2	Emergency Telephone: 306-664-2522	Postal Code: R2X 2W9	Emergency Telephone: 306-664-2522

Section 2 - Hazardous Ingredients

Hazardous Ingredients (specific)	%	CAS Number	LD50 of Ingredient (specify species and route)	LD50 of Ingredient (specify species)
Sulphamic Acid	99%	5329-14-6	1600 mg/kg oral	Rat

Section 3 - Physical Data

Physical State: Solid	Odour and Appearance: White crystalline, Odourless		Odour Threshold (ppm): N/A
Specific Gravity: 2.126 g/cc	Vapour Density (air=1): N/A	Vapour Pressure (mmHg): N/A	Evaporation Rate: Not volatile
Boiling Point (°C): 205	Freezing Point (°C): N/A	pH: 1.18 (1% solution)	Coefficient of Water/Oil Distribution: N/A

Section 4 - Fire and Explosion Data

Flammability Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, under which conditions? N/A		
Means of Extinction: CO ₂ , Water, Mist, Foam (Water used to extinguish may create a water solution of Sulphamic Acid and is strongly acidic)			
Flashpoint (°C) and Method: N/A	Upper Flammable Limit (% by volume): N/A	Lower Flammable Limit (% by volume): N/A	
Autoignition Temperature (°C): N/A	Explosion Data - Sensitivity to Impact: N/A	Explosion Data - Sensitivity to Static Discharge: N/A	
Hazardous Combustion Products: N/A			

Section 5 - Reactivity Data

Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under which conditions?		
Incompatibility with Other Substances Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, which ones? Strong oxidizing agents, chlorine, hypochlorous acid, cyanide or sulphur in aqueous solution.		
Reactivity, and under what conditions?: Heat			
Hazardous Decomposition Products: It is possible to have oxides of sulphur, and nitrogen and ammonia.			

Product Identifier

Section 6 - Toxicological Properties

Route of Entry Skin Contact Skin Absorption Eye Contact Inhalation Ingestion

Inhalation: Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. May cause pulmonary edema, a medical emergency. Pulmonary edema may be delayed up to 48 hours.

Ingestion: Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea.

Skin Contact: Corrosive. Symptoms of redness, pain, and severe burn can occur.

Eye Contact: Corrosive. Can cause blurred vision, redness, pain, severe tissue burns and eye damage.

Chronic Exposure: No information found

Exposure Limits (value, source, date)**Irritancy (if yes, explain)**Yes No **Sensitization (if yes, explain)**Yes No **Carcinogenicity (if yes, explain)**Yes No **Reproductive Toxicity (if yes, explain)**Yes No **Teratogenicity (if yes, explain)**Yes No **Mutagenicity (if yes, explain)**Yes No **Synergistic Products (if yes, explain)**Yes No

Section 7 - Preventive Measures

Personal Protective Equipment Gloves Respirator Eye Footwear Clothing Other

If checked, specify type: Engineering Controls (specify, such as ventilation, enclosed process): A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.

Leak and Spill Procedure: Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Waste Disposal: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements.

Handling Procedures and Equipment: Observe all warnings and precautions listed for the product

Storage Requirements: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids)

Special Shipping Information: TGD Class 8, Packing Group III

PIN UN2967

Section 8 - First Aid Measures

Inhalation: Remove patient to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Contact a physician.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical aid. Wash clothing before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 9 - MSDS Preparation

Prepared By: West Heat Industries Limited

Telephone Number: 204-694-2129

Preparation Date: Feb 20, 2008

West Heat Industries Limited provides this information in good faith, but makes no representation as to its comprehensiveness or its accuracy. This document is offered as a guide to a trained person, for appropriate precautionary handling. Persons using the product and receiving the information must exercise independent judgment in determining the appropriateness of the use and the safety information for their particular purpose. WEST HEAT INDUSTRIES LIMITED MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT. ACCORDINGLY, WEST HEAT INDUSTRIES LIMITED WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE ON THIS INFORMATION.