

# SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

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<b>Product Name:</b>	FlexPro CL5737
<b>Product Use:</b>	Cooling Water Treatment
<b>Supplier's Name:</b>	ChemTreat, Inc.
<b>Emergency Telephone Number:</b>	(800)424-9300 (Toll Free)
<b>Address (Corporate Headquarters):</b>	5640 Cox Road Glen Allen, VA 23060
<b>Telephone Number for Information:</b>	(800)648-4579
<b>Date of MSDS:</b>	June 24, 2015
<b>Revision Date:</b>	June 24, 2015
<b>Revision Number:</b>	15062401AN

## Section 2. Hazard(s) Identification

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**Signal Word:**

**DANGER**

**GHS Classification(s):**

Skin corrosion/irritation – Category 1a  
Eye damage/irritation – Category 1  
Acute Toxicity Dermal – Category 4  
Acute Toxicity Oral – Category 4  
Acute Toxicity Inhalation – Category 2  
Corrosive to Metals – Category 1  
Carcinogenicity – Category 1  
Specific Target Organ Toxicity – Repeated Exposure – Category 2

**Hazard Statement(s):**

Causes severe skin burns and eye damage.  
Causes serious eye damage.  
Harmful in contact with skin.  
Harmful if swallowed.  
Fatal if inhaled.  
May be corrosive to metals.  
May cause cancer.  
May cause damage to organs through prolonged or repeated exposure.



**Precautionary Statement(s):** Wear protective gloves/clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area.  
Keep only in original container.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

**System of Classification Used:** Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Hazards Not Otherwise Classified:** None.

### ***Section 3. Composition/Hazardous Ingredients***

Component	CAS Registry #	Wt. %
Citric acid	77-92-9	1 - 5
Sulfuric acid	7664-93-9	1 - 5

**Comments** If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

### ***Section 4. First Aid Measures***

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**Skin:** Immediately remove/take off all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before re-use. Immediately call a poison center or doctor/physician.

**Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.

**Notes to Physician:** N/A

**Additional First Aid Remarks:** N/A

## ***Section 5. Fire Fighting Measures***

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<b>Flammability of the Product:</b>	Not flammable.
<b>Suitable Extinguishing Media:</b>	Use extinguishing media suitable to surrounding fire.
<b>Specific Hazards Arising from the Chemical:</b>	Product may emit toxic gases or fumes under fire conditions. Use water spray to keep containers cool.
<b>Protective Equipment:</b>	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.

## ***Section 6. Accidental Release Measures***

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<b>Personal Precautions:</b>	Use appropriate Personal Protective Equipment (PPE).
<b>Environmental Precautions:</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
<b>Methods for Cleaning up:</b>	Contain and recover liquid when possible. Flush spill area with water spray.
<b>Other Statements:</b>	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802. Reportable Quantity of the product is 3126 Gal.

## ***Section 7. Handling and Storage***

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<b>Handling:</b>	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
<b>Storage:</b>	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Protect from heat and sources of ignition. Do not store or handle in aluminum, steel, copper, or their alloys.

## Section 8. Exposure Controls/Personal Protection

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### Exposure Limits

Component	Source	Exposure Limits
Citric acid	N/E	N/E
Sulfuric acid	ACGIH TLV	0.2 ppm TWA
	OSHA PEL	1 mg/m <sup>3</sup> TWA; Aerosol

### Engineering Controls:

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.

### Personal Protection

**Eyes:** Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.

**Skin:** Maintain quick-drench facilities in work area. Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and coveralls to prevent skin contact.

**Respiratory:** If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.

## Section 9. Physical and Chemical Properties

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<b>Physical State and Appearance:</b>	Liquid, Dark Straw, Clear
<b>Specific Gravity:</b>	1.087 – 1.100 @ 20°C
<b>pH:</b>	<1.0 @ 20°C, 100.0%
<b>Freezing Point:</b>	32°F
<b>Flash Point:</b>	N/A
<b>Odor:</b>	Mild
<b>Melting Point:</b>	N/A
<b>Initial Boiling Point and Boiling Range:</b>	~225°F
<b>Solubility in Water:</b>	Complete
<b>Evaporation Rate:</b>	N/D
<b>Vapor Density:</b>	N/D
<b>Molecular Weight:</b>	N/D
<b>Viscosity:</b>	<100 CPS @ 20°C
<b>Flammability (solid, gas):</b>	N/D

Flammable Limits:	N/A
Autoignition Temperature:	N/A
Density:	9.14 LB/GA
Vapor Pressure:	N/D
% VOC:	N/D
Odor Threshold	N/D
n-octanol Partition Coefficient	N/D
Decomposition Temperature	N/D

## Section 10. Stability and Reactivity

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<b>Chemical Stability:</b>	Stable at normal temperatures and pressures.
<b>Incompatibility with Various Substances:</b>	Bases, Strong oxidizers, Alkali sensitive metals or alloys, Amines, Metals or metal oxides, Nitrites.
<b>Hazardous Decomposition Products:</b>	Hydrogen chloride, Chlorine.
<b>Possibility of Hazardous Reactions:</b>	None known.

## Section 11. Toxicological Information

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Chemical Name	Exposure	Type of Effect	Concentration	Species
Sulfuric acid	Oral	LD50	2140 MG/KG	Rat
FlexPro CL5737	N/D	N/D	N/D	N/D

### Carcinogenicity Category

Component	Source	Code	Brief Description
Citric acid	N/E	N/E	N/E
Sulfuric acid	NTP	NTP-K	Known to be a human carcinogen

**Comments:** None.

## Section 12. Ecological Information

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Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	6095 mg/l
Fathead Minnow	96h	LC50	>10000 mg/l



Comments: Aquatic toxicity data is based on testing of a similar product.

### Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.  
EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

### Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	UN1760	CORROSIVE LIQUIDS, N.O.S.	(SULFURIC ACID AND CITRIC ACID)	8	PGII
Over 3126 GA	UN1760	RQ CORROSIVE LIQUIDS, N.O.S.	(SULFURIC ACID AND CITRIC ACID)	8	PGII

Note: N/A

### Section 15. Regulatory Information

#### Inventory Status

United States (TSCA):	All ingredients listed.
Canada (DSL/NDSL):	All ingredients listed.

#### Federal Regulations

##### SARA Title III Rules

##### Sections 311/312 Hazard Classes

Fire Hazard:	No
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes



**Other Sections**

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Citric acid	N/A	N/A	N/A
Sulfuric acid	N/A	1000	1000

**Comments:** None.

**State Regulations**

**California Proposition 65:** None known.

**Special Regulations**

Component	States
Citric acid	None.
Sulfuric acid	MA, MN, NJ, NY, PA, WA

**International Regulations**

**Canada**

**WHMIS Classification:** D2B (Toxic Material)  
E (Corrosive Material)

**Controlled Product Regulations (CPR):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**Compliance Information**

**NSF:** N/A

**FDA/USDA/GRAS:** N/A

**KOSHER:** This product has not been evaluated for Kosher approval.

**FIFRA:** N/A

**Other:** None

**Comments:** None.



## Section 16. Other Information

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### HMIS Hazard Rating

Health:	3
Flammability:	0
Physical Hazard:	1
PPE:	X

#### Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.

### Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

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