



# SAFETY DATA SHEET

### Section 1. Chemical Product and Company Identification

Product Name: FlexPro CL5644

**Product Use:** Cooling Water Treatment

Supplier's Name: ChemTreat, Inc.

**Emergency Telephone Number:** (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

Telephone Number for Information:(800)648-4579Date of SDS:March 7, 2017Revision Date:March 7, 2017Revision Number:17030701AN

### Section 2. Hazard(s) Identification

Signal Word: WARNING

**GHS Classification(s):** Eye damage/irritation – Category 2b

Eye damage/irritation – Category 2b Acute Toxicity Dermal – Category 5 Acute Toxicity Inhalation – Category 5 Acute Toxicity Oral – Category 5

**Hazard Statement(s):** H320 Causes eye irritation.

H313 May be harmful in contact with skin.

H333 May be harmful if inhaled. H303 May be harmful if swallowed.

**Precautionary Statement(s):** 

**Prevention:** P264 Wash thoroughly after handling.

Response: None.

Storage: None.

**Disposal:** None.

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	5 – 10

**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 to fresh air and keep at rest in a position comfortable for

breathing. Call a poison center or doctor/physician if you feel

unwell.

Eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye

irritation persists, get medical advice/attention.

**Skin:** Wash with plenty of soap and water. Call a poison center or

doctor/physician if you feel unwell.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician if you feel unwell.

Most Important Symptoms: N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

**Necessary:** 

N/A

## Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

**Suitable Extinguishing Media:** Use extinguishing media suitable to surrounding fire.

**Specific Hazards Arising from** 

the Chemical:

None known.





**Protective Equipment:** 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

**Personal Precautions:** Use appropriate Personal Protective Equipment (PPE).

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: None.

### Section 7. Handling and Storage

Handling: 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.

Storage: 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.

Store above Freeze Point.

# Section 8. Exposure Controls/Personal Protection

#### **Exposure Limits**

Component	Source	Exposure Limits
Citric acid	N/E	N/E

**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

Physical State and Appearance: Liquid, Amber, Clear

Specific Gravity: 1.292 @ 20°C

pH: 3.1 @ 20°C, 100.0%

Freezing Point: 27°F
Flash Point: N/A
Odor: Mild
Melting Point: N/A
Initial Boiling Point and Boiling Range: N/D
Solubility in Water: Complete

Evaporation Rate: N/D
Vapor Density: N/D
Molecular Weight: N/D

Viscosity: <100 CPS @ 20°C

Flammability (solid, gas): N/D
Flammable Limits: N/A
Autoignition Temperature: N/A

Density: 10.78 LB/GA

Vapor Pressure:N/D% VOC:N/DOdor ThresholdN/Dn-octanol Partition CoefficientN/DDecomposition TemperatureN/D





### Section 10. Stability and Reactivity

**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various** 

**Substances:** 

Strong oxidizers, Strong bases.

**Hazardous Decomposition** 

**Products:** 

Oxides of carbon, Oxides of nitrogen.

**Possibility of Hazardous** 

Reactions:

None known.

Reactivity: N/D

Conditions To Avoid: N/D

# Section 11. Toxicological Information

#### **Acute Toxicity**

Chemical Name	Exposure	Type of Effect	Concentration	Species
N/D	N/D	N/D	N/D	N/D

#### **Carcinogenicity Category**

Component	Source	Code	Brief Description
Citric acid	N/E	N/E	N/E

Likely Routes of Exposure: N/D

**Symptoms** 

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D





**Serious Eye Damage/Eye** 

Irritation:

N/D

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental

**Toxicity:** 

N/D

**Specific Target Organ Toxicity** 

Single Exposure: N/D

Repeated Exposure: N/D

**Aspiration Hazard:** N/D

Comments: None.

## Section 12. Ecological Information

### **Ecotoxicity**

Species	Duration	Type of Effect	Test Results
Mysid Shrimp	48h	LC50	>10000 mg/l
Inland Silverside	96h	LC50	5675 mg/l
Ceriodaphnia dubia	48h	LC50	1504 mg/l
Fathead Minnow	96h	LC50	2549 mg/l

Persistence and

**Biodegradability:** 

N/D

**Bioaccumulative Potential:** N/D

Mobility In Soil: N/D

Other Adverse Effects: N/D

Comments: None.





### Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

# Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
TDG	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			
ANTT	N/A	COMPOUND, INDUSTRIAL	N/A	N/A	N/A
		WATER TREATMENT, LIQUID			

Note: N/A

### Section 15. Regulatory Information

**Inventory Status** 

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

**Federal Regulations** 

**SARA Title III Rules** 

Sections 311/312 Hazard Classes

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

No





#### **Other Sections**

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

Comments: None.

**State Regulations** 

California Proposition 65: None known.

**Special Regulations** 

Component	States
Citric acid	None.

### **International Regulations**

Canada

WHMIS Classification: D2B (Toxic 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

Food Regulations: N/A

**KOSHER:** This product is certified by the Orthodox Union as kosher

pareve.

Only when prepared by the following ChemTreat facilities:

Ashland, VA; Eldridge, IA; Nederland, TX.

FIFRA: N/A

Other: None

Comments: None.





### Section 16. Other Information

#### **HMIS Hazard Rating**

Health: 1
Flammability: 0
Physical Hazard: 0
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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