

## SAFETY DATA SHEET

CLR HF

Page 1 of 5  
Date prepared: MAY 2, 2018  
MSDS : CLR HF SDS GHS

### 1. IDENTIFICATION

**Product Identifier**

**Product Name** CLR HF

**Recommended use of the chemical and restrictions on use**

**Recommended use** Foaming acid cleaner  
**Restrictions on use** No information available

**Supplier details**

Atomes FD Inc. 3485 Ashby Ville Saint Laurent Québec Canada H4R 2K3.

**Emergency Telephone Number**

Canutec (613)-996-6666

### 2. HAZARDS IDENTIFICATION

**Classification**

Skin Corrosion/Irritation	Category 1
Eye damage/ irritation	Category 1
Acute oral toxicity	Category 5
Corrosive to metals	Category 1

**Label Elements**

**DANGER**

**Hazard Statements**

Causes severe skin burns and eye damage.  
May be corrosive to metals.  
May be harmful if swallowed.



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**n**  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Keep only in original packaging.  
**Precautionary Statements - Response**  
IF IN 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.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
Immediately call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.





Absorb spillage to prevent material damage.



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**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Phosphoric acid	7664-38-2	5-15
Ethoxylated alcohol	68439-46-3	1-10

**4. FIRST AID MEASURES**

<b>Eye contact</b>	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
<b>Skin contact</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Causes burns to eyes, skin and mucous membranes. Symptoms include tingling sensation and / or reddening of tissues.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Handling** Avoid contact with skin, eyes and clothing.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Bases, organic materials, light metals, bleach.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	1000 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Eye/face Protection** Goggles.

**Skin and body protection** Wear rubber or neoprene gloves, rubber apron and boots.

**Respiratory Protection** If exposure limits are exceeded or if ventilation is inadequate, NIOSH/MSHA approved respiratory protection should be worn.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **APPEARANCE :**

Clear, red liquid

### **ODOR**

Faint detergent

### **ODOR THRESHOLD :**

Not applicable

### **VAPOR PRESSURE, mm Hg AT 20°C :**

Not applicable

### **VAPOR DENSITY (Air = 1) :**

Not applicable

### **RELATIVE DENSITY AT 20°C:**

1.020



**pH :**  
< 1  
**MELTING POINT / FREEZING POINT :**  
Not available  
**BOILING POINT/BOILING RANGE :**  
100 °C  
**FLASH POINT :**  
None  
**EVAPORATION RATE, water = 1 :**  
1  
**FLAMMABILITY (SOLID, GAS):**  
Not applicable

**SOLUBILITY IN WATER :**  
Complete  
**PARTITION COEFFICIENT, N-OCTANOL/WATER :**  
Not available  
**AUTO-IGNITION TEMPERATURE :**  
None  
**DECOMPOSITION TEMPERATURE:**  
Not available  
**VISCOSITY:**  
10 – 30 cps  
**FLAMMABLE LIMITS :**  
**UPPER:** Not applicable    **LOWER :** Not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive.

### Chemical Stability

Stable under normal conditions.

### Possibility of hazardous reactions

Will generate chlorine gas when mixed with chlorinated products.

### Conditions to Avoid

Store away from incompatible materials.

### Incompatible Materials

Chlorinated products, bases, organic materials, light metals

### Hazardous decomposition products

None known.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid 7664-38-2	1530 mg/kg ( Rat )	2730 mg/kg ( Rabbit )	850 mg/m <sup>3</sup> ( Rat ) 1 h
Ethoxylated alcohol 68439-46-3	> 2 g/kg ( Rat )	Not available	Not applicable

Inf

### Information on likely sources of exposure

<b>Serious eye damage/irritation</b>	Corrosive to eyes and may cause grave lesions, including blindness.
<b>Skin corrosion/irritation</b>	Corrosive to skin.
<b>Ingestion</b>	Ingestion may cause burns to the digestive and respiratory tract.
<b>Inhalation</b>	Spray mist may cause irritation or burns to respiratory tract.

### Delayed and immediate effects and also chronic effects from short and long-term exposure

<b>Respiratory or skin sensitization</b>	Not a sensitizer.
<b>Germ cell mutagenicity</b>	None known.
<b>Carcinogenicity</b>	No listed carcinogens.
<b>Reproductive toxicity</b>	None known.
<b>STOT - single exposure</b>	None known.
<b>STOT-repeated exposure</b>	None known.
<b>Aspiration Hazard</b>	None.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms include tingling sensation and / or reddening of tissues, eventually leading to burn lesions.



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**12. ECOLOGICAL INFORMATION****Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical Name	Fish	Waterflea
Phosphoric acid 7664-38-2	3 - 3.5 mg/L: Gambusia affinis 96 h LC50	4.6 mg/L: Daphnia magna 12 h EC50

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available

**Other adverse effects**

None known

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****TDG classification**

UN3264, corrosive liquid n.o.s. (phosphoric acid), class 8, PG II

**15. REGULATORY INFORMATION**

All ingredients are listed on the DSL

**16. OTHER INFORMATION****Preparation Date**

May 2, 2018

**Revision Date**

not applicable

**Revision Note**

not applicable

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**



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