



**INNOVATIVE
CHEMICAL
CORPORATION**

7769 95th Street South
Cottage Grove, MN 55016

SAFETY DATA SHEET

Revision Date: 8/13/2015
Emergency Phone: 1-800-535-5053 (Infotrac)

Section 1: Identification

Product Name: Low pH Presoak HF
Chemical Type: Liquid

Code: 98PLP00
Manufacturer/Supplier:
Innovative Chemical Corporation
7769 95th Street South
Cottage Grove, MN 55016
651-649-1762

Section 2: Hazard(s) Identification

GHS Classification

Skin corrosion	Category 1A
Serious eye damage	Category 1
Aspiration hazard	Category 1B

Label elements

Signal word: Danger
Hazard statements: Causes severe skin burns and eye damage.
May cause cancer.



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Use personal protective equipment as required.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. 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 exposed or concerned: Get medical advice/ attention. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local regulation.

Carcinogenicity:

IARC	Group 2A: Probably carcinogenic to humans Methyl Methanesulfonate
ACGIH	Suspected human carcinogen sulphuric acid
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	Reasonably anticipated to be a human carcinogen Methyl Methanesulfonate

Section 3: Composition/Information on Ingredients

Substance or mixture: Mixture
Other means of identification: Not available.

CAS number/other identifiers

CAS number: Not applicable.

Hazardous Components		
Chemical Name	%weight	CAS
Alcohols, C10-14, ethoxylated	5-10	66455-15-0
methanesulphonic acid	5-10	75-75-2
sulphuric acid	5-10	7664-93-9
dodecyldimethylamine oxide	1-5	1643-20-5
Methyl Methanesulfonate	0.1-1	66-27-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational limits, if available are listed in Section 8.

Section 4: First-Aid Measures

Description of first aid measures

General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	Remove to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Get medical attention immediately if irritation persists.
In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

See toxicological information (Section 11)

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media	Dry chemical
-------------------------------------	--------------

Unsuitable extinguishing media	High volume water jet
Hazardous combustion products	Do not allow run-off from fire fighting to enter drains or water courses.
Specific extinguishing methods	Carbon dioxide (CO ₂) Carbon monoxide Smoke Sulphur oxides
Further information	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment.
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling	Avoid exposure - obtain special instructions before use. Do not ingest. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	Store and keep away from bases and alkalies.

Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sulphuric acid	TWA (Thoracic fraction)	0.2 mg/m ³	ACGIH
	TWA	1 mg/m ³	NIOSH REL
	TWA	1 mg/m ³	OSHA Z-1
	TWA	1 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection	In the case of vapour formation use a respirator with an approved filter.
Hand protection	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Physical state	Liquid
Color	Clear
Odor	None Added
Odor threshold	Not available
pH	1
Boiling Point	100 °C
Flash Point	Closed cup: Not applicable. [Product does not sustain combustion.]
Evaporation rate	Not available
Upper explosion limit	Not available
Lower explosion limit	Not available
Vapor pressure	Not available
Relative vapour density	Not available
Density	1.063 g/cm ³
Solubility	Easily soluble in cold and hot water.
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Thermal decomposition	Not available
Viscosity	Not available

Section 10: Stability and Reactivity

Reactivity:	Stable
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No decomposition if stored and applied as directed.
Conditions to avoid:	no data available
Incompatible materials:	Alkali metals

Hazardous decomposition products: Carbon monoxide
Carbon dioxide (CO₂)
Sulphur oxides

Section 11: Toxicological Information

Acute toxicity

Acute oral toxicity	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Acute dermal toxicity	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

Methanesulphonic acid

Acute oral toxicity	LD50 Oral rat, male and female: 649 mg/kg
Acute inhalation toxicity	LC50 rat: 1.1 - 1.4 mg/l Exposure time: 6 h
Acute dermal toxicity	LD50 Dermal rabbit: > 1,000 - 2,000 mg/kg

Methyl Methanesulphonate

Acute oral toxicity	LD50 Oral rat: 225 mg/kg
---------------------	--------------------------

Skin corrosion/irritation

Remarks	Extremely corrosive and destructive to tissue.
---------	--

Serious eye damage/eye irritation

Remarks	May cause irreversible eye damage.
---------	------------------------------------

Respiratory or skin sensitisation

Not available

Germ cell mutagenicity

Not available

Carcinogenicity

Not available

Reproductive toxicity

Alcohols, C10-14, ethoxylated:
methanesulphonic acid:
sulphuric acid:
dodecyl dimethylamine oxide:

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration toxicity

Not available

Further information

Not available

Section 12: Ecological information**Ecotoxicity**

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Partition coefficient	Remarks
noctanol/water	no data available
methanesulphonic acid	log Pow:
Partition coefficient: noctanol/water	-2.38 (20 °C)

Mobility in soilSoil/water partition coefficient (K_{oc}): Not available

Other adverse effects: No known significant effects or critical hazards.

Regulation	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.

Section 13: Disposal considerations**Waste from residues**

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.

Contaminated packaging

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

Section 14: Transport information

Regulatory info	UN number	Proper shipping name	Classes	PG	Environmental hazards	Additional info
DOT Classification	3264	Corrosive liquid, acidic, inorganic, n.o.s. (METHANSESULFONIC ACID, SULFURIC ACID)	8	II.		
TDG Classification	3264	Corrosive liquid, acidic, inorganic, n.o.s. (METHANSESULFONIC ACID, SULFURIC ACID)	8	II.		
Mexico Classification	3264	Corrosive liquid, acidic, inorganic, n.o.s. (METHANSESULFONIC ACID, SULFURIC ACID)	8	II.		
ADR/RID Class	3264	Corrosive liquid, acidic, inorganic, n.o.s. (METHANSESULFONIC ACID, SULFURIC ACID)	8	II.		
IMDG Class	3264	Corrosive liquid, acidic, inorganic, n.o.s. (METHANSESULFONIC ACID, SULFURIC ACID)	8	II.		
IATA-DGR Class	3264	Corrosive liquid, acidic, inorganic, n.o.s. (METHANSESULFONIC ACID, SULFURIC ACID)	8	II.		

Special precautions for user: Not available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available

National Regulations: Not available

Special precautions for user: Not available

Section 15: Regulatory information

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
sulphuric acid	7664-93-9	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

Acute Health Hazard

Chronic Health Hazard

SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

sulphuric acid 7664-93-9 5.9003 %

SARA 313

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

Methyl Methanesulfonate 66-27-3

The components of this product are reported in the following inventories:

- TSCA** On TSCA Inventory
- DSL** All components of this product are on the Canadian DSL
- AICS** On the inventory, or in compliance with the inventory
- NZIoC** Not in compliance with the inventory
- PICCS** On the inventory, or in compliance with the inventory
- IECSC** Not in compliance with the inventory

Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Section 16: Other information

Hazardous Material

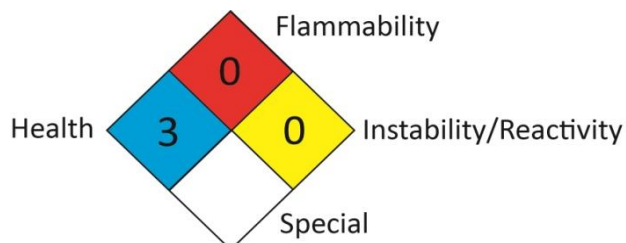
Information System (U.S.A.):

Health	*3
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection
Association:



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist