

MATERIAL SAFETY DATA SHEET

Product Name: Non Foaming Acidic Cleaner

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Manufacturer: Pishgam Bahar Chemical Inc.

Plot 26, Kamineh 1, Benavar industrial area, Siminshahr city, Gomishan city, Golestan, Iran, 00981734473734, 09121462755

1. PRODUCT INFORMATION

Uses:

- For washing and decontamination in membrane filters (RU, UF)
- For CIP systems and washing the internal surfaces of milk tanks
- To wash the external surfaces of devices and equipment in the food industry
- To remove mineral deposits, milk stone and metal pollution

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Conc. (W/W)	CAS No.	R-Phrases
Nitric acid	30-40	7697-37-2	R8 R35
Phosphoric acid	15-25	7664-38-2	R34
Anti-corrosion			
others	to 100%		

3. HAZARDS IDENTIFICATION

• This product is classified in the group of acidic compounds, which will burn if it comes in contact with the eyes, skin, and mucous membranes.



- This product is not flammable, but its presence in the fire causes the production of toxic and dangerous gases and accelerates the ignition.
- Inhaling the vapors emitted from this product causes irritation in the respiratory tract.
- When diluting the product with water, pay attention to the order of adding water and acid. (Always pour acid on water)

4. FIRST AID MEASURES

Eye Contact: On contact with eyes, rinse immediately with plenty of

running water for at least 15 minutes. If irritation persists

seek medical advice.

Ingestion: If swallowed drink water or milk of magnesia. Do not

induce vomiting. Seek medical advice showing the

container/label or this safety data sheet.

Skin Contact: Wash affected area with plenty of water. Remove and wash

contaminated clothing. Seek medical attention if irritation

occurs.

Inhalation: Remove affected person to fresh air. Apply resuscitation if

necessary. If irritation persists, seek medical attention.

First Aid Facilities: Eye wash facilities should be provided

5. FIRE-FIGHTING MEASURES



Flammability: Non-Flammable

Fire and Explosion: Product is Non Flammable, but its

presence in fire will produce toxic and dangerous gases. If product involved in fire, wear self-contained breathing apparatus, protective clothing and eye protection for firefighting. Use water fog, water or foam to cool intact containers and nearby storage areas.

6. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Solubility in Water: Soluble

Appearance: To yellow

pH @**solution 1%:** 1.8

Density@ 25: 1.29 gr/cm³

Flammability: Non-flammable

7. STABILITY AND REACTIVITY

- This product is stable under normal conditions and during the period of the useby date provided.
- This product has a highly acidic pH and is a strong oxidizing compound that reacts with all metals except for a few precious metals and some alloys.
- This product only reacts with calcium and magnesium to produce hydrogen gas, which can lead to explosion on a large scale.



- High temperature reduces product stability. According to the concentration, temperature and reducing factors in the environment, the final product of the reactions is different.
 - ❖ Incompatibilities: organic compounds, combustible materials, humidity, bases, hydrogen sulfide, carbides, alcohols, organic solvents, cyanides.

8. TOXICOLOGY INFORMATION

Tests performed on animals have not shown any carcinogenic or mutagenic effects.

Nitric acid

LD50/LC50:

Acute Toxicity Data: LC50 (rat): 0.8 mg/L Acute Inhalation; LC50 Rat: 65 mg/l 4.00 Hours

Oral, rat: LD50 > 90 mg/kg;

Phosphoric acid

Oral, rat: LD50: 1530 mg/kg; Dermal, rabbit: LD50: 2740 mg/kg;

Mouse: LC50: 25.5 mg/kg;

Rabbit: LC50: 1.689 mg/L (1 hour)

9. ENVIRONMENTAL INFORMATION

- ❖ Due to its acidic and strong oxidizing nature, this product causes a change in the pH of water, and a change in the pH factor in turn leads to a change in the biological status of aquatic organisms.
- ❖ On the other hand, the presence of acid in the vicinity of the soil causes decomposition and changes in the character of the soil. As a result, the contact of this product with soil and running water will cause many changes and damages.
- ❖ Before disposing of this product, be sure to dilute the concentrated solution with water or use neutralizing chemical compounds to minimize the damage.



For Nitric acid:

Aquatic fish; LC50 (96 hrs): 72 mg/l (Gambusia affinis)

For Phosphoric acid:

Ecotoxicity (aquatic and terrestrial): DL50 12 hours@ pH of 3 – 3.5

DL50 (12 hours): pH 4.6 (Daphnia Magna)

10. DISPOSAL CONSIDERATIONS

Disposal Considerations:

- In order to dispose of small amounts of the product, first dilute the material and pour it into the sewer with high water pressure.
- Contact the relevant legal authorities regarding the disposal of large quantities of the product.
- Wash the empty containers with water first, then they can be reused with the permission of legal authorities..

11. TRANSPORT AND STORAGE INFORMATION

Transportation:

- Make sure that the containers for transporting the product are healthy and the lids are properly closed.
- The workers who carry this product must observe all the safety principles related to the transportation of pharmaceutical, chemical and flammable materials.
- Do not use metal containers to transport this product.
- Avoid eating and smoking while transporting this product.



Storage:

- Containers containing the product must be healthy and completely sealed, and metal containers should not be used to store this product.
- In order to store this product for a long time, use glass, HDPE or PP containers. Note that this product causes drying and eventually bursting of colored and colorless PET containers.
- Store in a dry, cool and well-ventilated place.
- In order to keep the product in the warehouse, on the cartons containing the product, information about the product such as the name, production and expiration date, and warning signs should be pasted.
- Keep away from strong currents of electricity and flame sources.