

**SECTION 1 : CHEMICAL PRODUCT AND COMPANY INFORMATION**

**SYNONYMS:** Dairy Acid

**PROPER SHIPPING NAME:** Phosphoric Acid solution

**CAS NUMBER:** 7664-38-2

**UN NUMBER:** 1805

**PRODUCT USE:** Low Foam Acid detergent sanitizer

**SUPPLIER:** Agmax Industries Limited, 63b Allens Road, East Tamaki, 2013,  
Auckland Telephone: +64 9 271 5290

**24 H Emergency Contact:** 0800 243 622 ( 24 Hours)

**Website:** [www.agmax.co.nz](http://www.agmax.co.nz)

**Email:** [info@agmax.co.nz](mailto:info@agmax.co.nz)

**SECTION 2 : HAZARDS IDENTIFICATION****STATEMENT OF HAZARDOUS NATURE**

Classified as Hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms legislation.

**PICTOGRAMS****HSNO Classification and Hazard Statements:**

6.1E, 8.1A, 8.2C, 8.3A, 9.1D, 9.3C

**6.1E Acutely Toxic Substance (Medium Hazard)**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

**8.1A Corrosive to Metals (High Hazard)**

H290 May be corrosive to metals

**8.2C Corrosive to Derma Tissue (Medium Hazard)**

H314 Causes severe skin burns and eye damage

**8.3A Corrosive to Ocular Tissue (High Hazard)**

H318 Causes serious eye damage

**9.1D Ecotoxic in the Aquatic Environment (Low Hazard)**

H413 May cause long lasting harmful effects to aquatic life

**9.3C Ecotoxic to Terrestrial Vertebrates (Medium Hazard)**

H433 Harmful to terrestrial vertebrates.

**Prevention statements:**

- P102 Keep out of reach of children
- P103 Read label before use.
- P104 Read safety data sheet before use.
- P234 Keep in original container.
- P260 Do not breathe mist/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing and eye/face protection.

**Response statements:**

- P101 If medical advice is needed, have product container or label at hand.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately dilute with 120 - 240 mL of water or milk.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water.
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.

**Storage statements:**

- P405 Store locked up.
- P406 Store in corrosive resistant (possibly stainless steel) container with a resistant liner.

**SECTION 3 : COMPOSITION**

**Appearance:** Orange liquid

<b>Ingredient</b>	<b>CAS Number</b>	<b>Proportion</b>
Phosphoric Acid	7664-38-2	<30%
Surfactants, dye, water (to 100%)		

**SECTION 4 : FIRST AID MEASURES**

If medical advice is needed, have product container or label on hand

Refer First Aid instructions on label

**SWALLOWED**

If Swallowed: Call Doctor. Rinse Mouth then give a glass or two of water or milk, DO NOT induce vomiting unless medical assistance is delayed by 15 minutes (take care to avoid patient inhaling stomach contents). If breathing stops start mouth to nose resuscitation. Arrange urgent transport to hospital.

**Immediately call a POISON CENTER or doctor/physician**

Never give anything by mouth to an unconscious person.

**EYE**

If in Eyes: Wash eye with gently running water for at least thirty minutes. Do not rub the eye. Cover with sterile dressing. Seek medical attention immediately. Immediately call a Poison Centre or doctor/physician.

**SKIN**

Skin Contact: Quickly remove contaminated clothing. Wash skin with large quantities of water. Bathe affected areas in warm saline solution. Seek medical attention. Wash contaminated clothing and shoes before reuse.

**INHALED**

If Inhaled: Remove the casualty from further contamination. Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Apply resuscitation if victim is not breathing. Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer oxygen if breathing is difficult.

**NOTES TO PHYSICIAN**

Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved and take precautions to protect themselves. Treat symptomatically and supportively.

**SECTION 5 : FIRE FIGHTING MEASURES****GENERAL MEASURES**

If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.

**FLAMMABILITY CONDITIONS**

Non-combustible. Material does not burn. Decomposes on heating, emitting toxic fumes.

**EXTINGUISHING MEDIA**

Water fog (or if unavailable fine water spray), foam, dry chemical powder.

**FIRE AND EXPLOSION HAZARDS**

Fire fighters to wear self-contained breathing apparatus if risk or exposure to products of decomposition. Electrical conductor.

**HAZARDOUS PRODUCTS OF COMBUSTION**

Fire or heat will produce irritating, toxic, and/or corrosive gases.

**SPECIAL FIRE FIGHTING INSTRUCTIONS**

Runoff from fire control or dilution water may be toxic and/or corrosive and pollute waterways.

**PERSONAL PROTECTIVE EQUIPMENT**

Wear self-contained breathing apparatus (SCBA) with a full face-piece, in positive pressure mode. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is recommended for fire situations ONLY - it is NOT effective for spills.

**FLASH POINT**

No Data Available

**LOWER EXPLOSION LIMIT**

No Data Available

**UPPER EXPLOSION LIMIT**

NO Data Available

**AUTO IGNITION TEMPERATURE**

No Data Available

**HAZCHEM CODE**

2X

**SECTION 6 : ACCIDENTAL RELEASE MEASURES****General Response Procedure**

Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames). Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin and eyes

**Clean Up Procedures**

Contain and absorb. Avoid contamination of waterways. Small quantities can be neutralized with soda ash provided the area is (can be) well ventilated and washed to drain with large quantities of water.

Electrical conductor - isolate power in case of spills.

**Containment**

Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Dike and clean up all spills immediately.

**Decontamination**

Small spills or residues can be flushed with plenty of water.

**Environmental Precautionary Measures**

Drains for storage or work areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.

**Evacuation Criteria**

Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground.

**Personal Precautionary Measures**

Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for spills.

**SECTION 7 : HANDLING AND STORAGE****Handling**

Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid generation of mists/aerosols. Do not breathe mist/vapours/spray and prevent contact with eyes, skin and clothing. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). Absorb spillage to prevent material damage. When diluting, the acid should always be added slowly to water and in small amounts. Never use hot water and never add water to the acid - Water added to acid can cause uncontrolled boiling and splashing.

**Storage Conditions**

Store in a cool, dry and well-ventilated place, away from sources of heat and direct sunlight. Protect from freezing. Keep containers closed when not in use - check regularly for leaks. Protect from physical damage. Keep away from incompatible materials with D.G classes 1,5,7, strong alkalis, food or food containers. Store locked up. Container May be corrosive to metals - Keep only in the original container/corrosive resistant container with resistant inner liner  
**Keep out of reach of children.**

**SHELF LIFE**

Use within 5 Years

**SECTION 8 : EXPOSURE CONTROLS & PERSONAL PROTECTION****General**

COMPONENT: Phosphoric acid (CAS No. 7664-38-2):

- New Zealand Workplace Exposure Standard (WES): TWA = 1 mg/m<sup>3</sup>.
- OSHA PEL: TWA = 1 mg/m<sup>3</sup>.
- NIOSH REL: TWA = 1 mg/m<sup>3</sup>; STEL = 3 mg/m<sup>3</sup>.
- Immediately dangerous to life or health (IDLH) concentration: 1,000 mg/m<sup>3</sup>.

**Exposure Limits**

No Data Available

**Engineering Measures**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Personal Protection Equipment**

Respiratory protection: Where the potential exists for exposure over 1 mg/m<sup>3</sup>, use an approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive pressure mode. For increased protection, use in combination with an auxiliary self-contained breathing apparatus operated in a pressure-demand or other positive-pressure mode. If the possibility of exposure above 1,000 mg/m<sup>3</sup> exists, use an approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.

Eye/face protection: Wear appropriate eye protection to prevent eye contact.

Recommended: Chemical goggles; Face-shield.

Hand protection: Wear protective gloves.

Recommended: Elbow-length impervious gloves, e.g. Butyl rubber (0.7 mm), Chloroprene rubber (0.5 mm), Viton (0.4 mm), Natural rubber (0.5 mm), Neoprene (0.5 mm).

Do not use leather gloves.

Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact.

Recommended: Overalls, splash apron or equivalent chemical impervious (acid-resistant) outer garment, rubber boots.

**Biological Limits**

No information available.

**Special Hazards Precautions**

No information available.

**Work Hygienic Practices**

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

Yellow liquid

**PHYSICAL PROPERTIES**

Fully miscible in water.

Specific Gravity: 1.14

pH value: 2.8

**SECTION 10 : STABILITY AND REACTIVITY****General Information**

The substance is a medium-strong acid; Reacts violently with bases. Reacts with metals liberating flammable hydrogen gas.

**Chemical Stability**

Stable under normal ambient and anticipated storage and handling conditions.

**Conditions to Avoid**

Avoid formation of mists/aerosols. Avoid overheating.

**Materials to Avoid**

Incompatible/reactive with strong oxidising agents, reducing agents, sulfides, phosphides, cyanides, acetylides, fluorides, silicides, carbides, strong caustic material, alloys, glass, leather, natural rubber, fluorine gas, arsenic trioxide.

**Hazardous Decomposition Products**

Fire or heat will produce irritating, toxic and/or corrosive gases, including oxides of Phosphorus.

**Hazardous Polymerisation**

Will not occur.

**SECTION 11 : TOXICOLOGICAL INFORMATION****General Information**

Acute toxicity: Harmful if swallowed. May be harmful in contact with skin and if inhaled.

Corrosive on ingestion, may cause abdominal pain, burning sensation, shock or collapse.

Skin corrosion/irritation: Causes severe skin burns. Contact with skin may cause redness, pain, blisters, skin burns.

Eye damage irritation: Causes serious eye damage. Corrosive to eyes, may cause redness, pain, corneal burns resulting in permanent eye injury.

Respiratory/skin sensitisation: No information available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT - single exposure: Product mists or aerosols may cause respiratory irritation, burning sensation, cough, shortness of breath, sore throat. Prolonged exposures can cause necrosis of nasal passages and oedema of lungs.

STOT - repeated exposure: No information available.

Aspiration toxicity: No information available.

Specific target organ toxicity: No information available.

**Carcinogen Category**

None

**SECTION 12 : ECOLOGICAL INFORMATION**

Ecotoxicity: No information available.

Persistence/Degradability: No information available.

Mobility: No information available.

Environmental Fate: Prevent entry into drains and waterways.

Bioaccumulation Potential: No information available.

Environmental Impact: No Data

**SECTION 13 : DISPOSAL CONSIDERATIONS****CONTAINER DISPOSAL**



Dispose of empty containers safely in accordance with local regulations.  
 Triple rinse containers when empty, add rinsing to use solutions.  
 Avoid contamination of natural water supplies with chemical or empty container.  
 After cleaning, all existing labels should be removed.

**PRODUCT DISPOSAL**

Adjust the pH to neutral with soda ash, separate any insoluble solids or liquids and package them for hazardous waste disposal. Flush the aqueous solutions down the drain with plenty of water.

The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition and good ventilation.

**SECTION 14 : TRANSPORT INFORMATION**

UN No.	1805
Dangerous Goods Class:	8 - Corrosive
Hazchem code:	2X
Packing group:	III
Proper Shipping Name:	PHOSPHORIC ACID Solution
Segregation:	Don't store with D.G classes 1, 5, 7, strong alkalis, food or food containers.

**SECTION 15 : REGULATORY INFORMATION**

NZFSA approved for use in farm milking plant and bulk milk tank

ERMA Approval HSR002526

MPI Approval: MPI approval for use in farm dairies

HSNO Controls: Trigger quantities for this substance by itself in a place  
 6.1E 8.1A 8.2C 8.3A 9.1D 9.3C

Approve handler test certificate: *Not required*

Hazardous substance location: *Not required*

Location Test certificate: *Not required*

Hazardous Atmosphere Zone: *Not required*

Emergency Plan: *1,000 ltrs*

Tracking: *Not required*

Warning Signs: *10,000 ltrs*

Record of application or discharge: *Not required*

**SECTION 16 : OTHER INFORMATION**

New Zealand Poisons Information Center 0800 POISON (0800 764 766)

**Disclaimer:**

The data given relates to this product alone, and not to its use in conjunction with other substances or products. In such circumstances, assuming the combination is permitted, refer to product labels, be guided by the most hazardous of the substances involved and observe the more stringent hazard controls applicable.

The information contained in this Safety Data Sheet was obtained from current and reliable sources. The data is supplied without warranty, expressed or implied regarding its correctness and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage, or expense resulting from improper use of this product.

Amendments: Updated formatting and reviewed data.

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