

Dissolve Foaming Acid Cleaner

High-Foaming Phosphoric & Nitric Acid Detergent

Dissolve Foaming Acid Cleaner is an aggressive acid detergent useful in the removal of built-up calcium, protein, hard-water and other similar deposits. This product is unique in that it contains the popular phosphoric/nitric blend, along with a high-foaming detergent package. Dissolve is commonly used as an acidic detergent for food processors to maintain equipment and utensils. Methods of use include foam, soak, scrub and spray washing. Dissolve Foaming Acid Cleaner is effective in cold water.

- **High-Foaming Phosphoric & Nitric Acid Detergent**
- **Removes Hard Water Scale, Calcium, Milkstone and Other Alkaline Soils**
- **Powerful Detergent Package Assists Acids in Dissolving Built-Up Soils**

Usage Directions: Dilute Dissolve Foaming Acid Cleaner in a separate container in accordance with Dilution Guidelines chart. Rinse surface to be cleaned to remove any loose soils. Apply Dissolve to a small area to test for compatibility and desired results before widespread use. Dissolve solution can be applied with foamer, sprayer, sponge, or brush. Parts can also be soaked in a solution of Dissolve in a COP application. Allow solution to penetrate and dissolve built-up soils. More than one application may be required and some scrubbing may be necessary to remove exceptionally heavy soils. Rinse surface from top to bottom with fresh water and apply sanitizer.

Safety & Hazards



Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using Dissolve Foaming Acid Cleaner

Consult SDS for Further Safety Precautions

DOT Shipping Name: UN 3264, Corrosive Liquid, Acidic, Inorganic, N.O.S., (Nitric Acid, Phosphoric Acid), 8, PG II

Technical Information:

Appearance: Clear Red Liquid
Odor: Acidic
pH: <1.0
Foam: High Foam

Associated Products:

103-F, Foaming Degreaser With Caustic
FCC-3, Foaming Chlorinated Detergent With Caustic & Rinse Agents
MG 4-Quat, 5th Generation Quaternary Sanitizer & Disinfectant
Multi-Chlor, 12.5% Sodium Hypochlorite Sanitizer

Dissolve Foaming Acid Cleaner

Dilution Guidelines

Usage	Dilution
Foam - General Usage	2 - 4 Ounces Per Gallon
Foam - Heavy Soils	8 - 10 Ounces Per Gallon
Soak - General Usage	1 - 3 Ounces Per Gallon
Soak - Heavy Soils	4 - 8 Ounces Per Gallon

Titration Kit:

MRTK1005-Z, Acidity Titration. 1 Drop = 0.555 oz per gallon

Warning: Do Not Mix With Alkaline Or Chlorinated Products. This Product Contains An Oxidizing Acid And Will React With Certain Surfaces, I.e. Brass, Copper, Iron And Galvanized Metal.

Products Manufactured By:



Product Selection and General Use Chart

Dissolve Foaming Acid Cleaner

General Use: High-Foaming Phosphoric & Nitric Acid Detergent

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Soak - Heavy Soils	4 - 8 Ounces Per Gallon

Safety & Hazards



Danger: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep away from combustible materials. Take any precaution to avoid mixing with combustibles Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. May intensify fire; oxidizer. Causes severe skin burns and eye damage. Causes serious eye damage.

Product Class: Acid

Protective Equipment Guide

A			
B			
C			
D			
E			
F			
G			
H			
I			
J			
K			
X	Ask Your Supervisor for Special Handling Instructions		

Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using Dissolve Foaming Acid Cleaner

Attention: Do Not Mix With Alkaline Or Chlorinated Products. This Product Contains An Oxidizing Acid And Will React With Certain Surfaces, I.e. Brass, Copper, Iron And Galvanized Metal.

Products Manufactured By:

Letter of Guarantee

Dissolve Foaming Acid Cleaner

Morgan-Gallacher, Inc. guarantees the product Dissolve Foaming Acid Cleaner complies with the requirements set forth by the USDA FSIS for Nonfood Compounds Category Code A3: Cleaning Product - Acid Cleaner. The description of Category Code A3 Cleaning Product - Acid Cleaner is as follows:

These acidic products consisting of mineral acids, organic acids, or acidic salts may be acceptable for use in any department for the removal of rust, corrosion, scale, or other deposits which are not readily removed by alkaline preparations.

The following apply to this product as well as all other cleaning products under Category Code A3:

1. All food products and packaging materials shall be removed or carefully protected prior to usage;
2. A potable water rinse is required after use;
3. When used according to manufacturer's instructions, cleaners shall not exhibit a noticeable odor nor leave a visible residue;

Dissolve Foaming Acid Cleaner is free from undesirable microorganisms and is guaranteed safe and adequate as Category Code: A3 Cleaning Product - Acid Cleaner when used as directed. This product does not intentionally contain any of the following heavy metals: antimony, arsenic, cadmium, lead, mercury, or selenium. None of the ingredients in this product are considered to be carcinogens, mutagens, teratogens, mineral acids, or odorous unless otherwise specified.

This document serves as a continuing letter of assurance and satisfies the conditions of 21 CFR Section 110.35 and the USDA Sanitation Performance Standards Compliance Guide.

Sincerely,

Original Signed By:

Ida Mariam
VP Technology & Regulatory Affairs

January 21, 2016

Date

Concentration Verification Procedure

Dissolve Foaming Acid Cleaner

Procedure No: Acid2

Procedure Name: Acidity Titration

Test Kit No: MRTK1005-Z

Factor: 1 Drop = 0.555 oz per gallon

Purpose:

To measure concentration of diluted acid detergent

Required Components:

- 1) 10 mL Vial
- 2) Phenolphthalein Indicator (MRPH1605)
- 3) Sodium Hydroxide 5.0N (MRSH6289)

Procedure

- 1) Rinse vial 3 times with solution to be tested.
- 2) Fill vial to the 10 mL mark with sample.
- 3) Add 3 drops of Phenolphthalein Indicator (MRPH1605). Swirl to mix. The sample should remain colorless.
- 4) Add Sodium Hydroxide 5.0N (MRSH6289) drop-wise while swirling until the sample color turns pink. Count the number of drops.
- 5) Multiply the numbers of drops by the conversion factor to obtain the amount of product.

Concentration Verification Log Sheet

Dissolve Foaming Acid Cleaner

Procedure No: Acid2

Procedure Name: Acidity Titration

Test Kit No: MRTK1005-Z

Factor: 1 Drop = 0.555 oz per gallon

Date & Time Sampled	Tested By	Sample Location	Result	Corrective Action Required (Yes/No)

Dissolve Foaming Acid Cleaner

High-Foaming Phosphoric & Nitric Acid Detergent

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Net Contents:

Lot No.:

DOT Shipping Name: UN 3264, Corrosive Liquid, Acidic, Inorganic, N.O.S., (Nitric Acid, Phosphoric Acid), 8, PG II

In Case of Emergency, Contact Chemtrec 800-424-9300

Dissolve Foaming Acid Cleaner

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Product Class: Acid

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Soak - General Usage	1 - 3 Ounces Per Gallon
Soak - Heavy Soils	4 - 8 Ounces Per Gallon

These Guidelines Serve as Recommended Starting Points For Diluting This Product Only. The Dilution Required For Your Task May Vary. Contact Time, Temperature, Soil Load, and Other Factors Will Determine the Actual Dilution Required. Consult Your Morgan-Gallacher, Inc. Representative for More Specific Dilution Guidelines.

Do Not Mix With Alkaline Or Chlorinated Products. This Product Contains An Oxidizing Acid And Will React With Certain Surfaces, I.e. Brass, Copper, Iron And Galvanized Metal.

Empty Container Storage & Handling

Ensure Compliance with Local, State & Federal Regulations in Disposing of Container, Residual Contents and Rinsings. Drum Containers Must Be Completely Drained, Properly Closed and Promptly Returned to a Drum Reconditioner for Commercial Cleaning.

This Product Is Intended For Industrial and Institutional Use Only

KEEP OUT OF REACH OF CHILDREN

Safety & Hazards



Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using Dissolve Foaming Acid Cleaner

Danger

This product contains Phosphoric Acid and Nitric Acid. May intensify fire; oxidizer. Causes severe skin burns and eye damage. Causes serious eye damage. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep away from combustible materials. Take any precaution to avoid mixing with combustibles. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases

- IF ON SKIN (OR HAIR)** Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.
- IF IN EYES** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- IF INHALED** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention.
- IF SWALLOWED** Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.

Consult SDS for Further Safety Precautions

Products Manufactured By:



Made in the USA

8707 Millergrove Drive - Santa Fe Springs - CA 90670
(562) 695-1232 - FAX: (562) 699-8953

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-0130-BUK
Product Name: Dissolve Foaming Acid Cleaner
Company Name: Morgan-Gallacher, Inc.
 8707 Millergrove Drive
 Santa Fe Springs, CA 90670
Emergency Contact: CHEMTREC

Phone Number:
 +1 (562)695-1232
 +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1A
Oxidizing Liquids, Category 3
Serious Eye Damage/Eye Irritation, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases:
 H272 - May intensify fire; oxidizer.
 H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.

GHS Precaution Phrases:
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P220 - Keep away from combustible materials.
 P221 - Take any precaution to avoid mixing with combustibles/...
 P260 - Do not breathe fume/gas/mist/vapours/spray.
 P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P315 - Get immediate medical advice/attention.
 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.
 P315 - Get immediate medical advice/attention. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P315 - Get immediate medical advice/attention.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P315 - Get immediate medical advice/attention.

GHS Storage and Disposal Phrases:
 P405 - Store locked up.
 P501 - Dispose of contents/container in accordance to local, state and federal regulations.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic):

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes chemical burns to the respiratory tract.

Skin Contact: May be harmful if absorbed through the skin. Causes skin burns.

Eye Contact: Causes eye burns. Causes severe eye irritation. May cause painful sensitization to light.

Ingestion: Toxic if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7664-38-2	Phosphoric acid	<15.0 %
7697-37-2	Nitric acid	<10.0 %
NA	Surfactant	< 5.0 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation:	Remove from exposure and move to fresh air immediately. Get medical aid immediately.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash off with soap and plenty of water. Wash clothing before reuse. Get medical aid immediately.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
In Case of Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt:	No data.	
Explosive Limits:	LEL: No data.	UEL: No data.
Autoignition Pt:	No data.	
Suitable Extinguishing Media:	For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.	
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool.	
Flammable Properties and Hazards:	No data available.	
	No data available.	

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Observe all federal, state, and local environmental regulations.
Steps To Be Taken In Case Material Is Released Or Spilled:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Use with adequate ventilation. Keep container tightly closed. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid ingestion and inhalation. Wash thoroughly after handling.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a tightly closed container. Keep container closed when not in use.

Other Precautions: Handle in accordance with good industrial hygiene and safety practice.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	No data.
7697-37-2	Nitric acid	PEL: 2 ppm	TLV: 2 ppm STEL: 4 ppm	No data.
NA	Surfactant	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection: Wear chemical splash goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Red.
Liquid.
Transparent.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): 1.107 - 1.127

Solubility in Water: No data.

Percent Volatile: No data.

Autoignition Pt: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Extremes of temperature and direct sunlight. Incompatible materials.

Incompatibility - Materials To Avoid: Strong oxidizing agents, Strong reducing agents, Strong bases, chlorine.

Hazardous Decomposition or Byproducts: Carbon oxides, oxides of phosphorus, nitrogen oxides (NOx), hydrogen gas, Phosphine, irritating and toxic fumes and gases.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Reproductive Effects: No data available.
Mutagenicity: No data available.
Epidemiology: No data available.
Teratogenicity: No data available.
Neurotoxicity: No data available.

CAS# 7664-38-2: Phosphoric acid: Acute toxicity, LD50, Oral, Rat, 1530. MG/KG.
Result: Kidney, Ureter, Bladder: Changes in liver weight. Blood: Other hemolysis with or without anemia. Blood: Changes in spleen.

Standard Draize Test, Skin, Species: Rabbit, 595.0 MG, 24 H. Result: Behavioral: Somnolence (general depressed activity). Behavioral: Muscle contraction or spasticity. Lungs, Thorax, or Respiration: Dyspnea.

Standard Draize Test, Eyes, Species: Rabbit, 119.0 MG. Result: Blood: Change in clotting factors.

CAS# NA: Surfactant: Acute toxicity, LD50, Oral, Rat, 960.0 - 3980. MG/KG. Result: Blood: Tumors. Immunological Including Allergic: Autoimmune (multiple organ involvement).

Acute toxicity, LD50, Dermal, Rabbit, 2000. - 2991. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Vascular: BP lowering not characterized in autonomic section. Skin and Appendages: Skin: After topical exposure: Corrosive.

Acute toxicity, LD50, Inhalation, Rat, 1.150 MG/L, 4 H. Result: Lungs, Thorax, or Respiration: Other changes. Gastrointestinal: Nausea or vomiting.

Irritation or Corrosion: Other Studies: CAS# 7697-37-2:
Acute toxicity, LC50, Inhalation, Rat, 67.00 ppm (NO2), 4 H.

Carcinogenicity/Other Information: ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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.

CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.

CAS# 7697-37-2: Nitric acid: 100% mortality or 0% survival of organism., Brook Trout (Salvelinus fontinalis), 1562.5 UG/L, Mortality. Result: Affected fish lost equilibrium prior to death.

LC50, Green Or European Shore Crab (Carcinus maenas), adult(s), 180000. UG/L, 48 H, Mortality. Result: Affected fish lost equilibrium prior to death.

LC50, Cockle (Cerastoderma edule), adult(s), 330000. - 1000000. UG/L, 48 H, Mortality. Result: Affected fish lost equilibrium prior to death.

LC50, Hooknose (Agonus cataphractus), adult(s), 100000. - 330000. UG/L, 48 H, Mortality. Result: Affected fish lost equilibrium prior to death.

LC50, Starfish (Asterias rubens), adult(s), 100000. - 330000. UG/L, 48 H, Mortality. Result: Affected fish lost equilibrium prior to death.

CAS# NA: Surfactant: LC50, Fathead Minnow (Pimephales promelas), 3.800 - 6.200 MG/L, 96 H. Result: Affected fish stopped schooling behavior. Affected fish became hyperactive. Fish were overreactive to external stimuli. Affected fish swam at or near surface. No loss of equilibrium observed.

LC50, Water Flea (Daphnia magna), 9.300 - 21.40 MG/L, 48 H. Result: Affected fish stopped schooling behavior. Affected fish became hyperactive. Fish were overreactive to external stimuli. Affected fish swam at or near surface. No loss of equilibrium observed.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Observe all federal, state, and local environmental regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid, Nitric Acid)

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN3264

Packing Group: II



15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7664-38-2	Phosphoric acid	No	Yes 5000 LB	No
7697-37-2	Nitric acid	Yes 1000 LB	Yes 1000 LB	Yes
NA	Surfactant	No	No	No

CAS # Hazardous Components (Chemical Name)

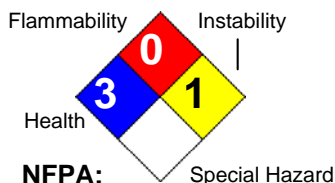
Other US EPA or State Lists

7664-38-2	Phosphoric acid	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1805; NY Part 597: Yes; PA HSL: Yes - E
7697-37-2	Nitric acid	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1356; NY Part 597: Yes; PA HSL: Yes - E
NA	Surfactant	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No

16. OTHER INFORMATION

Revision Date: 05/12/2015

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.

1. IDENTIFICACIÓN DEL PRODUCTO QUÍMICO Y LA EMPRESA

Código del Producto: MORGAN-0130-BUK
Nombre del Producto: Dissolve Foaming Acid Cleaner
Nombre de la Empresa: Morgan-Gallacher, Inc.
8707 Millergrove Drive
Santa Fe Springs, CA 90670
Número De Teléfono: +1 (562)695-1232
Contacto De la Emergencia: CHEMTREC +1 (800)424-9300

2. IDENTIFICACIÓN DE LOS RIESGOS

Corrosión/irritación cutáneas, Categoría 1A
Líquidos comburentes, Categoría 3
Lesiones oculares graves/irritación ocular, Categoría 1



SGA Palabra de advertencia: Peligro

Frases del peligro de SGA: H272 - Puede agravar un incendio; comburente.
H314 - Provoca graves quemaduras en la piel y lesiones oculares.
H318 - Provoca lesiones oculares graves.

Frases de la precaución de SGA: P210 - Mantener alejado de fuentes de inflamación tales como calor/chispas/llamas al descubierto. - No fumar.
P220 - Mantener alejado de materiales combustibles.
P221 - Tomar todas las precauciones necesarias para no mezclar con materias combustibles/... .. otras materias incompatibles especificadas por el fabricante /proveedor o la autoridad competente.
P260 - No respirar fume/gas/mist/vapours/spray.
P264 - Lavarse cuidadosamente las manos después de la manipulación.
P280 - Usar guantes /ropa protectora/equipo de protección para los ojos/la cara.

Frases de la respuesta de SGA: P301+330+331 - EN CASO DE INGESTIÓN: Enjuagarse la boca. NO provocar el vómito.
P315 - Buscar asistencia médica inmediata.
P303+361+353 - EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente la ropa contaminada. Lavar la piel con agua/ducharse.
P315 - Buscar asistencia médica inmediata. P304+340 - EN CASO DE INHALACIÓN: Transportar a la víctima al aire libre y mantenerla en una posición que facilite la respiración.
P315 - Buscar asistencia médica inmediata.
P305+351+338 - EN CASO DE CONTACTO CON LOS OJOS: Lavar con agua cuidadosamente durante varios minutos. Quitar en su caso las lentes de contacto, si puede hacerse con facilidad. Proseguir con el lavado.
P315 - Buscar asistencia médica inmediata.

Frases del almacenaje y de la disposición de SGA: P405 - Guardar bajo llave.
P501 - Eliminar el contenido/recipiente ...

Estado regulador del OSHA: Este material está clasificado como peligroso bajo las regulaciones de la OSHA.

Potenciales efectos en la salud (Agudo o Crónico):

- Inhalación:** Puede ser nocivo si se inhala. El material es extremadamente destructivo para los tejidos de las membranas mucosas y las vías respiratorias superiores. El producto químico de las causas quema a las vías respiratorias.
- Contacto con la piel:** Puede ser nocivo si es absorbido por la piel. Provoca quemaduras en la piel.
- Contacto con los ojos:** Provoca quemaduras en los ojos. Provoca irritación de los ojos grave. Posibilidad de sensibilización dolorosa a la luz.
- Ingestión:** Tóxico en caso de ingestión. Podría causar la irritación gastrointestinal con náusea, vomitar y diarrea.

3. COMPOSICIÓN/ INFORMACIÓN SOBRE LOS COMPONENTES

Numeros	Componentes peligrosos [química nombre]	Concentración
7664-38-2	El ácido fosfórico	<15.0 %
7697-37-2	Nitric acid	<10.0 %
NA	Surfactant	< 5.0 %

4. MEDIDAS EN PRIMEROS AUXILIOS

Procedimientos de Emergencia y Primeros Auxilios:

- En caso de inhalación:** Quite de la exposición y del movimiento al aire fresco inmediatamente. Consiga la ayuda médica inmediatamente.
- En caso de contacto con la piel:** Limpie la piel con un chorro de agua con el un montón de 15 minutos del agua por lo menos mientras que quita la ropa contaminada y los zapatos. Eliminar lavando con jabón y mucha agua. Lave la ropa antes de la reutilización. Consiga la ayuda médica inmediatamente.
- En caso de contacto con los ojos:** Ojos rasantes con el un montón de 15 minutos del agua por lo menos , de vez en cuando levantando los párpados superiores y más bajos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Buscar asistencia médica inmediata.
- En caso de ingestión:** NO provocar vómitos. Nunca debe administrarse nada por la boca a una persona inconsciente. Enjuague la boca con agua.
Si la víctima está consciente y alerta, dé las copas de 2-4 de leche o de agua.
- Informe para el médico:** Convite sintomático y de apoyo. Mostrar esta ficha de seguridad al doctor que esté de servicio.

5. MEDIDAS DE LUCHA CONTRA INCENDIOS

- Punto de encendido:** No información
- Límites de explosión:** LEI: No información LES: No información
- Punto de Auto-Ignición:** No información
- Medios Que extinguen Convenientes:** Para incendios, aplicar agua desde tan lejos como sea posible. Abundante agua agua pulverizada o spray. Enfriar todos los contenedores afectados con abundante agua.
- Instrucciones para combatir el fuego:** Como en cualquier fuego, use un aparato respiratorio autónomo en presión-exigen, MSHA/NIOSH (aprobado o equivalente), y engranaje protector lleno. Utilice el aerosol de agua para mantener los envases fuego-expuestos frescos.
- Propiedades y riesgos de materiales inflamables:** No disponible
No disponible

6. MEDIDAS CONTRA FUGAS ACCIDENTALES

- Precauciones protectoras, equipo protector y procedimientos de emergencia:** Utilice el equipo protector personal apropiado según lo indicado en la sección 8.
- Precauciones ambientales:** Observar todos los reglamentos estatales y locales sobre la protección del medio ambiente.
- Pasos a ser tomados en cuenta en caso de que material se fugue o derrame:** Absorba el derramamiento con el material inerte (e.g. vermiculita, arena o tierra), después colóquelo en envase conveniente. Evitar respirar los vapores, la neblina o el gas.
Evacuar el personal a zonas seguras.

7. MANIPULACIÓN Y ALMACENAMIENTO

- Precauciones a ser tomadas en la manipulación:** Utilice con la ventilación adecuada. Mantenga el envase cerrado firmemente. Evitar contacto con la piel y los ojos. Evitar la inhalación de vapor o neblina. Evite la ingestión y la inhalación. Lavarse cuidadosamente después de la manipulación.
- Precauciones para ser tomadas en almacenaje:** Almacén en un área fresca, seca, well-ventilated lejos de sustancias incompatibles. Almacén en un firmemente de contenedor cerrado. Mantenga el envase cerrado cuando es parado.
- Otras precauciones:** Manipular de acuerdo con las buenas prácticas de higiene y seguridad industrial.

8. CONTROL DE EXPOSICIÓN / PROTECCIÓN PERSONAL

Numeros	Nombre Químico Parcial	OSHA TWA	ACGIH TWA	Otra Limites
7664-38-2	El ácido fosfórico	PEL: 1 mg/m ³	TLV: 1 mg/m ³ STEL: 3 mg/m ³	No información
7697-37-2	Nitric acid	PEL: 2 ppm	TLV: 2 ppm STEL: 4 ppm	No información
NA	Surfactant	No información	No información	No información

- Equipo respiratorio (especificar el tipo):** Usar respiradores y componenetes testados y aprovados bajo los standards gubernamentales apropiados como NIOSH (EEUU) o CEN (UE)
- Protección ocular:** Anteojos químicos del chapoteo del desgaste.
- Guantes protectores:** Use los guantes protectores apropiados para prevenir la exposición de piel. Guantes de goma o neopreno.
- Otras ropas protectoras:** Use la ropa protectora apropiada para prevenir la exposición de piel.
- Medidas de ingeniería [ventilación, etc.]:** Las instalaciones que almacenan o que utilizan este material se deben equipar de una facilidad del colirio y de una ducha de la seguridad. Utilice la ventilación de extractor general o local adecuada para guardar concentraciones aerotransportadas debajo de los límites de exposición permitidos.
- Prácticas de trabajo / higiene / mantenimiento:** Manipular con las precauciones de higiene industrial adecuadas, y respetar las prácticas de seguridad.

9. PROPIEDADES FÍSICAS Y QUÍMICAS

Estado físico:	[] Gas [X] Líquido [] Solido	
Aspecto y Olor:	rojo. Líquido. Transparente.	
Punto de Fusión:	No información	
Punto de Ebullición:	No información	
Punto de encendido:	No información	
Índice de evaporación:	No información	
Flammability (solid, gas):	No disponible	
Límites de explosión:	LEI: No información	LES: No información
Presión de Vapor (vs. Aire o mm Hg):	No información	
Densidad de Vapor (vs. Aire = 1):	No información	
Gravedad Específica (Agua = 1):	1.107 - 1.127	
Solubilidad en Agua:	No información	
Volatilidad:	No información	
Punto de Auto-Ignición:	No información	

10. ESTABILIDAD Y REACTIVIDAD

Estabilidad:	Inestable [] Estable [X]
Condiciones para evitar - Inestabilidad:	Temperaturas extremas y luz directa del sol. Materiales incompatibles.
Incompatibilidad - Materiales para evitar:	Agentes oxidantes fuertes, Agentes extremadamente reductores, Bases fuertes, Cloro.
Peligrosa descomposición o derivados del producto:	Óxidos de carbono, Oxidos de fósforo, óxidos de nitrógeno (NOx), gas de hidrógeno, Fosfina, humos y gases irritantes y tóxicos.
Posibilidad de reacciones peligrosas:	Sucedirá [] No sucederá [X]
Condiciones para evitar - Reacciones Peligrosas:	No disponible

11. INFORMACIÓN TOXICOLÓGICA

Información Toxicológica:

Efectos reproductivos: Sin datos disponibles.
Mutagenicidad: Sin datos disponibles.
Epidemiología: Sin datos disponibles.
Teratogenicidad: Ningunos datos disponibles.
Neurotoxicidad: Sin datos disponibles.

CAS# 7664-38-2: El ácido fosfórico: Toxicidad aguda, DL50, Oral, Rata, 1530. MG/KG.
Resultado: Riñón, uréter, vejiga: Cambios en peso del hígado. Sangre: La otra hemólisis con o anemia del withot. Sangre: Cambios en bazo.

Prueba estándar de Draize, Piel, Especie: Conejo, 595.0 MG, 24 H. Resultado: Conducta: Somnolencia (depresión general de la actividad). Conduata: La contracción muscular o espasticidad. Pulmones, torax o Respiración: Disnea.

Prueba estándar de Draize, Ojos, Especie: Conejo, 119.0 MG. Resultado: Sangre: Cambie en factores de coagulación.

CAS# NA: Surfactant: Toxicidad aguda, DL50, Oral, Rata, 960.0 - 3980. MG/KG.
Resultado: Sangre: Tumores. Inmunológico incluyendo alérgica: autoinmune (la participación de múltiples órganos).

Toxicidad aguda, DL50, Cutáneo, Conejo, 2000. - 2991. MG/KG. Resultado: Conducta: Somnolencia (depresión general de la actividad). Vasculares: Disminución de la TA no caracterizada en la sección autónomica. Piel y accesorios: Piel: Después de la exposición tópica: Corrosivo.

Toxicidad aguda, DL50, Inhalación, Rata, 1.150 MG/L, 4 H. Resultado: Pulmones, torax o Respiración: Otras alteraciones. Gastrointestinal: Náuseas o vómitos.

Irritación o la corrosión:

Otros Estudios: CAS # 7697-37-2:

Toxicidad aguda, LC50, inhalación, rata, 67,00 ppm (NO2), 4 H.

Carcinogenicidad/Otras informaciones:

ACGIH: No se identifica ningún componente de este producto, que presente niveles mayores que o el igual a 0,1% como cancerígeno o como carcinógeno potencial por la ACGIH.

IARC: No se identifica ningún componente de este producto, que presente niveles mayores que o el igual a 0,1% como cancerígeno o como carcinógeno potencial por la IARC.

NTP: En este producto no se identifica ningún componente, que presente niveles mayores que o iguales a 0.1%, como agente carcinógeno conocido o anticipado por el (NTP) Programa Nacional de Toxicología.

OSHA : Ninguno de los componentes de este producto, que presente niveles mayores que o iguales a 0.1 % se identifica como carcinógeno o carcinógeno potencial por la OSHA .

CAS# 7664-38-2: No enumerado por el apoyo 65 del ACGIH, de la CIRC, del NTP, o del CA.

Carcinogenicidad:

NTP No IARC No Regulado por OSHA? No

12. INFORMACIÓN ECOLÓGICA

Información Ecológica:

Ambiental: Ninguna información disponible.
Comprobación: Ninguna información disponible.

CAS# 7697-37-2: Nitric acid: Brook Trout (*Salvelinus fontinalis*), 1562.5 UG/L.
Resultado: Los peces afectados pierden el equilibrio antes de la muerte.
LC50, Green Or European Shore Crab (*Carcinus maenas*), 180000. UG/L, 48 H.
Resultado: Los peces afectados pierden el equilibrio antes de la muerte.
LC50, Cockle (*Cerastoderma edule*), 330000. - 1000000. UG/L, 48 H. Resultado: Los peces afectados pierden el equilibrio antes de la muerte.
LC50, Hooknose (*Agonus cataphractus*), 100000. - 330000. UG/L, 48 H. Resultado: Los peces afectados pierden el equilibrio antes de la muerte.
LC50, Starfish (*Asterias rubens*), 100000. - 330000. UG/L, 48 H. Resultado: Los peces afectados pierden el equilibrio antes de la muerte.
CAS# NA: Surfactant: LC50, Fathead Minnow (*Pimephales promelas*), 3.800 - 6.200 MG/L, 96 H. Resultado: Los peces afectados se detuvo el comportamiento de la escolarización. Los peces afectados se volvía hiperactiva. Los peces fueron overreactive a los estímulos externos. Los peces afectados nadó en o cerca de la superficie. No hay pérdida de equilibrio observado.
LC50, Water Flea (*Daphnia magna*), 9.300 - 21.40 MG/L, 48 H. Resultado: Los peces afectados se detuvo el comportamiento de la escolarización. Los peces afectados se volvía hiperactiva. Los peces fueron overreactive a los estímulos externos. Los peces afectados nadó en o cerca de la superficie. No hay pérdida de equilibrio observado.

Persistencia y degradabilidad:

Sin datos disponibles.

Potencial de bioacumulación:

Sin datos disponibles.

Movilidad en el suelo:

Sin datos disponibles.

13. CONSIDERACIONES RELACIONADAS A LA ELIMINACIÓN

Método de eliminación los desperdicios:

Observar todos los reglamentos estatales y locales sobre la protección del medio ambiente. Los generadores inútiles del producto químico deben determinar si un producto químico desechado está clasificado como desechos peligrosos. Las pautas de los E.E.U.U. EPA para la determinación de la clasificación se enumeran en 40 partes de CFR 261.3. Además, los generadores inútiles deben consultar el estado y regulaciones locales de los desechos peligrosos para asegurar la clasificación completa y exacta. Para la eliminación de este producto, dirigirse a un servicio profesional autorizado.

14. INFORMACIÓN RELACIONADA AL TRANSPORTE

TRANSPORTE POR TIERRA (US DOT):

DOT Nombre propio del envío:

Líquido corrosivo, N.E.P. ácido, inorgánico. (Phosphoric Acid, Nitric Acid)

Clase De Peligro (DOT):

8 CORROSIVO

Número UN/NA:

UN3264

Grupo del embalaje:

II



15. INFORMACIÓN REGLAMENTARIA

Lista de la Ley de Reautorización y Enmiendas de Grandes Reservas(SARA) del 1986

Numeros CAS	Componentes peligrosos [química nombre]	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7664-38-2	El ácido fosfórico	No	Sí 5000 LB	No
7697-37-2	Nitric acid	Sí 1000 LB	Sí 1000 LB	Sí
NA	Surfactant	No	No	No

Numeros CAS Componentes peligrosos [química nombre]

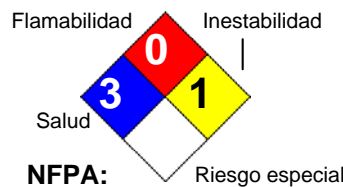
Otros E.E.U.U. EPA o listas del estado

7664-38-2	El ácido fosfórico	TSCA: Sí - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Sí; MI CMR, Part 5: Part 5; NJ EHS: Sí - 1805; NY Part 597: Sí; PA HSL: Sí - E
7697-37-2	Nitric acid	TSCA: Sí - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Sí; MI CMR, Part 5: Part 5; NJ EHS: Sí - 1356; NY Part 597: Sí; PA HSL: Sí - E
NA	Surfactant	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No

16. OTRAS INFORMACIONES

Fecha de la revisión: 05/12/2015

Sistema de Estimación del Riesgo:



Información adicional acerca de este producto: No disponible

Política o negación de la compañía:

Mientras Morgan-Gallacher cree las declaraciones que figuran en el presente documento son exactas a partir de la fecha del presente, Morgan-Gallacher ofrece ninguna garantía con respecto a la misma y se exime expresamente de toda responsabilidad por relación a lo mencionado. Estos datos se brindan sólo para evaluación, investigación y verificación.