



Low Foaming Acid Detergent & Descaler

MSR is an aggressive acidic detergent useful in the removal of built-up calcium, protein, hard-water and other similar deposits. This product is commonly used as an acidic detergent for food processors to maintain equipment and utensils. MSR is formulated using a time-tested acid formulation that begins dissolving calcium, sodium and protein on contact. Methods of use include soak, scrub and spray washing. MSR is effective in cold water.

- **Low-Foaming Acid Detergent**
- **Brightens Metal Surfaces**
- **Removes Protein, Sodium, Calcium & Hard Water Deposits**
- **Easy Rinsing**

Usage Directions: Dilute MSR in a separate container in accordance with Dilution Guidelines chart. A small amount of Detergent Concentrate can be added if foaming properties are desired. Rinse surface to be cleaned to remove any loose soils. Apply MSR to a small area to test for compatibility and desired results before widespread use. MSR solution can be applied with foamer, sprayer, sponge, or brush. For best results start at the bottom of the surface and work up to the top. 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. Residual acidity can be neutralized with a mild alkaline, like Soda Ash.

Safety & Hazards



Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using MSR

Consult SDS for Further Safety Precautions

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

Technical Information:

Appearance: Clear Brown Liquid
Odor: None
pH: <3.0
Foam: Low Foam

Associated Products:

FCC-3, Foaming Chlorinated Detergent With Caustic & Rinse Agents

Multi-Chlor, 12.5% Sodium Hypochlorite Sanitizer

MG 4-Quat, 5th Generation Quaternary Sanitizer & Disinfectant
Detergent Concentrate, Heavy Duty Detergent & Foam Booster

MSR Dilution Guidelines

Usage	Dilution
Normal Usage	3 Oz Per Gallon
Heavy Build-Up	5 Oz Per Gallon
Extremely Heavy Build-Up	10 Oz Per Gallon

Titration Kit:

MRTK1005-Z, Acidity Titration. 1 Drop = 0.333 oz per gallon

Warning: Do Not Mix With Alkaline Or Chlorinated Products.

Products Manufactured By:



Product Selection and General Use Chart

MSR

General Use: Low Foaming Acid Detergent & Descaler

MSR is an aggressive acidic detergent useful in the removal of built-up calcium, protein, hard-water and other similar deposits. This product is commonly used as an acidic detergent for food processors to maintain equipment and utensils. MSR is formulated using a time-tested acid formulation that begins dissolving calcium, sodium and protein on contact. Methods of use include soak, scrub and spray washing. MSR is effective in cold water.

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Dilution Guidelines

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Titration Kit:

MRTK1005-Z, Acidity Titration. 1 Drop = 0.333 oz per gallon

Safety & Hazards



Danger: Keep out of reach of children. Read label before use. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Take any precaution to avoid mixing with alkaline or chlorinated products. Causes severe skin burns and eye damage. Harmful if swallowed. May be corrosive to metals.

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 MSR

Attention: Do Not Mix With Alkaline Or Chlorinated Products.

Products Manufactured By:

Morgan Gallacher Inc.
SUPERIOR CLEANING PRODUCTS

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

Letter of Guarantee

MSR

Morgan-Gallacher, Inc. guarantees the product MSR 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;

MSR 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

MSR

Procedure No: Acid2

Procedure Name: Acidity Titration

Test Kit No: MRTK1005-Z

Factor: 1 Drop = 0.333 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.



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Concentration Verification Log Sheet

MSR

Procedure No: Acid2

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Test Kit No: MRTK1005-Z

Factor: 1 Drop = 0.333 oz per gallon

[illegible]

MSR

Low Foaming Acid Detergent & Descaler

- Low-Foaming Acid Detergent
- Brightens Metal Surfaces
- Removes Protein, Sodium, Calcium & Hard Water Deposits
- Easy Rinsing

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Net Contents:

Lot No.:

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

MSR Low Foaming Acid Detergent & Descaler

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Dilution Guidelines	
Usage	Dilution
Normal Usage	3 Oz Per Gallon
Heavy Build-Up	5 Oz Per Gallon
Extremely Heavy Build-Up	10 Oz 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.

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

Product Class: Acid

Safety & Hazards



Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using MSR

Danger

This product contains Phosphoric Acid and Sulfuric Acid. Causes severe skin burns and eye damage. Harmful if swallowed. May be corrosive to metals. Keep out of reach of children. Read label before use. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Take any precaution to avoid mixing with alkaline or chlorinated products.

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

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-142-BULK
Product Name: MSR
Company Name: Morgan-Gallacher, Inc.
8707 Millergrove Drive
Santa Fe Springs, CA 90670
Phone Number: +1 (562)695-1232
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1B

Acute Toxicity: Oral, Category 4

Serious Eye Damage/Eye Irritation, Category 1

Corrosive To Metals, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases:
H314 - Causes severe skin burns and eye damage.
H302 - Harmful if swallowed.
H290 - May be corrosive to metals.

GHS Precaution Phrases:
P102 - Keep out of reach of children.
P103 - Read label before use.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P270 - Do not eat, drink or smoke when using this product.
P234 - Keep only in original container.
P202 - Do not handle until all safety precautions have been read and understood.

GHS Response Phrases:
Take any precaution to avoid mixing with alkaline or chlorinated products
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.
P363 - Wash contaminated clothing before reuse.
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.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P321 - Specific treatment see ... on this label.
P308+313 - IF exposed or concerned: Get medical attention/advice.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P310 - Immediately call a POISON CENTER or doctor/physician.
P330 - Rinse mouth.
P390 - Absorb spillage to prevent material damage.

GHS Storage and Disposal P405 - Store locked up.

Phrases: P501 - Dispose of contents/container in accordance to local, state and federal regulations.
P406 - Store in corrosive resistant/... container with a resistant inner liner.

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

Potential Health Effects (Acute and Chronic):

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

Skin Contact: Causes skin burns. Harmful if absorbed through the skin.

Eye Contact: Causes serious eye damage. Causes severe eye burns. May cause permanent corneal opacification.

Ingestion: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7664-38-2	Phosphoric acid	<35.0 %
7664-93-9	Sulfuric acid	< 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. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water.

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.

Hazardous Combustion Products: Phosphine, oxides of phosphorus, oxides of sulfur, carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.

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.

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 ingestion and inhalation. Avoid breathing dust, vapor, mist, or gas. Wash thoroughly after handling.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. 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.
7664-93-9	Sulfuric acid	PEL: 1 mg/m3	TLV: (1 mg/m3) STEL: (3 mg/m3)	No data.
Respiratory Equipment (Specify Type):	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.			
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: Brown.
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): 1.209 - 1.229

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, chlorine, Strong reducing agents, Strong bases, Metals.

Hazardous Decomposition or Byproducts: Phosphine, oxides of phosphorus, oxides of sulfur, carbon monoxide, carbon dioxide, 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: Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.

Irritation or Corrosion: CAS# 7664-38-2: Phosphoric acid: Acute toxicity, LD50, Oral, Rat, 1530. MG/KG.
Standard Draize Test, Skin, Species: Rabbit, 595.0 MG, 24 H.
Standard Draize Test, Eyes, Species: Rabbit, 119.0 MG.

Other Studies: CAS# 7664-38-2:
Acute toxicity, LD50, Oral, Rat, 1530 mg/kg
Acute toxicity, LD50, Skin, Rabbit, 2740 mg/kg
Acute toxicity, LC50, Inhalation, Rat, 850.0 mg/m3, 1 H.

Other Studies: CAS# 7664-38-2:
Standard Draize Test, Eyes, Species: Rabbit, 119.0 mg

Other Studies: CAS# 7664-93-9:

Acute toxicity, LD50, Oral, Rat, 2140 mg/kg
Acute toxicity, LC50, Inhalation, Rat, 510.0 mg/m³, 2 H.

Other Studies: CAS# 7664-93-9:
Standard Draize Test, Eyes, Species: Rabbit, 250 ug

Carcinogenicity/Other Information:

CAS# 7664-93-9: ACGIH: A2 - Suspected Human Carcinogen.
California: carcinogen, initial date 3/14/03. NTP: Known carcinogen (listed as Strong inorganic acid mists containing s).

Carcinogenicity:

CAS# 7664-38-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
NTP? Yes IARC Monographs? Yes OSHA Regulated? Yes

12. ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: No information available.
Physical: No information available.

Results of PBT and vPvB assessment:

Other Studies: CAS# 7664-93-9:
LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 42000 ug/L, 24H, Mortality
LC50, Common Shrimp, Sand Shrimp (*Crangon crangon*), adult(s), 70000 - 80000 ug/L, 48H, Mortality

Persistence and Degradability:

Other Studies: CAS# 7664-38-2:
Not reported. Rainbow Trout (*Oncorhynchus mykiss*), fingerling, 5.190%, 27 W
No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
Observe all federal, state, and local environmental regulations.
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, Sulfuric 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
7664-93-9	Sulfuric acid	Yes 1000 LB	Yes 1000 LB	Yes

CAS # Hazardous Components (Chemical Name)

7664-38-2 Phosphoric acid

7664-93-9 Sulfuric acid

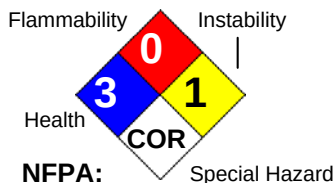
Other US EPA or State Lists

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
TSCA: Yes - Inventory; CA PROP.65: Yes - Cat.; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1761; NY Part 597: Yes; PA HSL: Yes - E

16. OTHER INFORMATION

Revision Date: 05/05/2015

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-142-BULK
Nombre del Producto: MSR
Nombre de la Empresa: Morgan-Gallacher, Inc.
 8707 Millergrove Drive
 Santa Fe Springs, CA 90670
Contacto De la Emergencia: CHEMTREC

Número De Teléfono:
 +1 (562)695-1232
 +1 (800)424-9300

2. IDENTIFICACIÓN DE LOS RIESGOS

Corrosión/irritación cutáneas, Categoría 1B
Toxicidad aguda por ingestión, Categoría 4
Lesiones oculares graves/irritación ocular, Categoría 1
Sustancias y mezclas corrosivas para los metales, Categoría 1



SGA Palabra de advertencia: Peligro

Frases del peligro de SGA: H314 - Provoca graves quemaduras en la piel y lesiones oculares.
 H302 - Dañino si es deglutido.
 H290 - Puede ser corrosiva para los metales.

Frases de la precaución de SGA: P102 - Mantener fuera del alcance de los niños.
 P103 - Leer la etiqueta antes del uso.
 P260 - No respirar polvos/humos/gases/nieblas/vapores/aerosoles.
 P264 - Lavarse cuidadosamente las manos después de la manipulación.
 P280 - Usar guantes /ropa protectora/equipo de protección para los ojos/la cara.
 P270 - No comer, beber o fumar cuando se manipula este producto.
 P234 - Conservar únicamente en el recipiente original.
 P202 - No manipular antes de haber leído y comprendido todas las precauciones de seguridad.

Frases de la respuesta de SGA: Tomar todas las precauciones necesarias para no mezclar con materias ... otras materias incompatibles especificadas por el fabricante /proveedor o la autoridad competente.

P303+361+353 - EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente la ropa contaminada. Lavar la piel con agua/ ducharse.
 P363 - Lavar/descontaminar la ropa contaminada antes de volverla a usar.
 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.
 P301+330+331 - EN CASO DE INGESTIÓN: Enjuagarse la boca. NO provocar el vómito.
 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.
 P321 - Tratamiento específico véase ... en esta etiqueta.
 P308+313 - En caso de exposición demostrada o presunta: consultar al médico.
 P301+312 - Llamar a un CENTRO DE TOXICOLOGÍA/o a un médico si la persona se

encuentra mal.

P310 - Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA o a un médico.

P330 - Enjuagarse la boca.

P390 - Absorber el vertido para prevenir daños materiales.

Frases del almacenaje y de la disposición de SGA:

P405 - Guardar bajo llave.

P501 - Eliminar el contenido/recipiente ...

P406 - Almacenar en un recipiente resistente a la corrosión/recipiente en ... con forro interior resistente a la corrosión.

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:

Nocivo si se inhala. El producto químico de las causas quema a las vías respiratorias. El material es extremadamente destructivo para los tejidos de las membranas mucosas y las vías respiratorias superiores.

Contacto con la piel:

Provoca quemaduras en la piel. Dañino si es absorbido a través de la piel.

Contacto con los ojos:

Provoca lesiones oculares graves. Quemaduras severas del ojo de las causas. Puede causar opacificación corneal permanente.

Ingestión:

Dañino si es deglutido. Podría causar daño severo y permanente a la zona digestiva. Quemaduras del aparato gastrointestinal de las causas.

3. COMPOSICIÓN/ INFORMACIÓN SOBRE LOS COMPONENTES

Numeros	Componentes peligrosos [química nombre]	Concentración
7664-38-2	El ácido fosfórico	<35.0 %
7664-93-9	ácido sulfúrico	< 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 el vómito. Si la víctima está consciente y alerta, dé las copas de 2-4 de leche o de agua. Nunca debe administrarse nada por la boca a una persona inconsciente. Enjuague la boca con 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 desde una larga distancia. Abundante 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
Productos peligrosos combustión:	Fosfina, Oxidos de fósforo, óxidos del sulfuro, monóxido de carbono, dióxido de carbono, humos y gases irritantes y tóxicos.

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.

7. MANIPULACIÓN Y ALMACENAMIENTO

Precauciones a ser tomadas en la manipulación:	Utilice con la ventilación adecuada. Mantener el recipiente herméticamente cerrado. Evitar contacto con la piel y los ojos. Evite la ingestión y la inhalación. Evite respirar el polvo, el vapor, la niebla, o el gas. Lavarse cuidadosamente después de la manipulación.
Precauciones para ser tomadas en almacenaje:	Almacén en un área fresca, seca, well-ventilated lejos de sustancias incompatibles. 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/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	No información
7664-93-9	ácido sulfúrico	PEL: 1 mg/m3	TLV: (1 mg/m3) STEL: (3 mg/m3)	No información
Equipo respiratorio (especificar el tipo):	Un programa de la protección respiratoria que resuelve OSHA 29 CFR 1910.134 y los requisitos del ANSI Z88.2 o EN del estándar europeo 149 debe ser seguido siempre que el lugar de trabajo condicione uso del respirador de la autorización.			
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 [] Sólido

Aspecto y Olor: Marrón.
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): 1.209 - 1.229

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, Cloro, Agentes extremadamente reductores, Bases fuertes, Metales.

Peligrosa descomposición o derivados del producto: Fosfina, Óxidos de fósforo, óxidos del sulfuro, monóxido de carbono, dióxido de carbono, humos y gases irritantes y tóxicos.

Posibilidad de reacciones peligrosas: Sucederá [] No sucederá [X]

Condiciones para evitar - Reacciones Peligrosas: No disponible

11. INFORMACIÓN TOXICOLÓGICA

Información Toxicológica:	Epidemiología: Sin datos disponibles. Teratogenicidad: Ningunos datos disponibles. Efectos reproductivos: Sin datos disponibles. Mutagenicidad: Sin datos disponibles. Neurotoxicidad: Sin datos disponibles.
Irritación o la corrosión:	CAS# 7664-38-2: El ácido fosfórico: Toxicidad aguda, DL50, Oral, Rata, 1530. MG/KG. Prueba estándar de Draize, Piel, Especie: Conejo, 595.0 MG, 24 H. Prueba estándar de Draize, Ojos, Especie: Conejo, 119.0 MG. Otros Estudios: CAS # 7664-38-2: Toxicidad aguda, DL50, oral, rata, 1530 mg / kg Toxicidad aguda, DL50, dérmica, conejo, 2740 mg / kg Toxicidad aguda, LC50, inhalación, rata, 850,0 mg/m3, 1 H. Otros Estudios: CAS # 7664-38-2: Prueba Draize estándar, Ojos, Especies: conejo, 119,0 mg. Otros Estudios: CAS # 7664-93-9: Toxicidad aguda, DL50, oral, rata, 2140 mg / kg Toxicidad aguda, LC50, inhalación, rata, 510,0 mg/m3, 2 H. Otros Estudios: CAS # 7664-93-9: Prueba Draize estándar, Ojos, Especies: conejo, 250 ug.
Carcinogenicidad/Otras informaciones:	CAS# 7664-93-9: ACGIH: A2 - Agente carcinógeno humano sospechoso. California: agente carcinógeno, fecha inicial 3/14/03. NTP: Agente carcinógeno sabido (enumerado como nieblas ácidas inorgánicas fuertes que contienen s). CAS# 7664-38-2: No enumerado por el apoyo 65 del ACGIH, de la CIRC, del NTP, o del CA.
Carcinogenicidad:	NTP Sí IARC Sí Regulado por OSHA? Sí

12. INFORMACIÓN ECOLÓGICA

Información Ecológica:	Ambiental: Ninguna información disponible. Comprobación: Ninguna información disponible.
Resultados de la valoración PBT y mPmB:	Otros Estudios: CAS # 7664-93-9: CL50, Mosquitofish Occidental (Gambusia affinis), adulto (s), 42000 ug / L, 24H, Mortalidad CL50, Camarón Común, Camarón Sand (Crangon crangon), adulto (s), desde 70.000 hasta 80.000 ug / L, 48H, Mortalidad. Otros Estudios: CAS # 7664-38-2: No se ha notificado. Trucha arco iris (Oncorhynchus mykiss), alevines, 5.190%, 27 W.
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: 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. Además, los generadores inútiles deben consultar el estado y regulaciones locales de los desechos peligrosos para asegurar la clasificación completa y exacta. Observar todos los reglamentos estatales y locales sobre la protección del medio ambiente. 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, Sulfuric 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
7664-93-9	ácido sulfúrico	Sí 1000 LB	Sí 1000 LB	Sí

Numeros CAS Componentes peligrosos [química nombre]

7664-38-2	El ácido fosfórico
7664-93-9	ácido sulfúrico

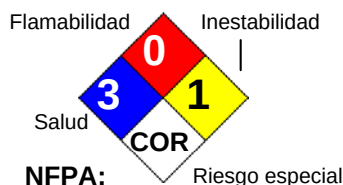
Otros E.E.U.U. EPA o listas del estado

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
TSCA: Sí - Inventory; CA PROP.65: Sí - Cat.; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Sí; MI CMR, Part 5: Part 5; NJ EHS: Sí - 1761; NY Part 597: Sí; PA HSL: Sí - E

16. OTRAS INFORMACIONES

Fecha de la revisión: 05/05/2015

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.