

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
Emergency Contact: CHEMTREC

Phone Number:
 +1 (562)695-1232
 +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: Causes severe skin burns and eye damage.
 Harmful if swallowed.
 May be corrosive to metals.

GHS Precautionary Phrases: 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 for 15 minutes.
 Get immediate medical advice/attention.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 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.

GHS Storage and Disposal Phrases: Store locked up.
 Dispose of contents/container in accordance to local, state and federal regulations.
 Store in corrosive resistant/... container with a resistant inner liner.

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

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 %
68439-46-3	Alcohol ethoxylate	< 2.0 %

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/m ³	TLV: 1 mg/m ³ STEL: 3 mg/m ³	No data.
7664-93-9	Sulfuric acid	PEL: 1 mg/m ³	TLV: (1 mg/m ³) STEL: (3 mg/m ³)	No data.
68439-46-3	Alcohol ethoxylate	No data.	No data.	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.	
pH:	< 2.0	
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.	
Octanol/Water Partition Coefficient:	No data.	
Autoignition Pt:	No data.	
Decomposition Temperature:	No data.	
Viscosity:	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.

CAS# 7664-38-2: Phosphoric acid: Acute toxicity, LDLO, Route of Application: Unreported., Human, 220.0 MG/KG.

Acute toxicity, LD50, Oral, Rat, 1530. MG/KG.
 Acute toxicity, LC50, Inhalation, Rat, > 850.0 MG/M3, 1 H.
 Acute toxicity, LD50, Skin, Species: Rabbit, 2740. MG/KG.
 Standard Draize Test, Skin, Species: Rabbit, 595.0 MG, 24 H.
 Standard Draize Test, Eyes, Species: Rabbit, 119.0 MG.

CAS# 7664-93-9: Sulfuric acid: Mutagenicity:, Mutation test: Cytogenetic analysis., Species: Hamster, 4.000 MMOL/L, Cell Type: ovary..

Irritation or Corrosion:

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.

Carcinogenicity/Other Information:

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

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

Carcinogenicity:

NTP? Yes IARC Monographs? Yes OSHA Regulated? Yes

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7664-38-2	Phosphoric acid	n.a.	n.a.	n.a.	n.a.
7664-93-9	Sulfuric acid	Known	No	A2	No
68439-46-3	Alcohol ethoxylate	n.a.	n.a.	n.a.	n.a.

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

Other Studies: CAS# 7664-38-2:

Not reported. Rainbow Trout (*Oncorhynchus mykiss*), fingerling, 5.190%, 27 W

Persistence and Degradability: 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
68439-46-3	Alcohol ethoxylate	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specific target organ toxicity (single or repeated exposure)
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC)	

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

7664-38-2 Phosphoric acid	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC: Cat. IIb, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: No; NY Part 597: Yes: HS; PA HSL: Yes - E
7664-93-9 Sulfuric acid	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC: Cat. IIb, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1761; NY Part 597:

68439-46-3 Alcohol ethoxylate

Yes: HS; PA HSL: Yes - E

CWA NPDES: No; TSCA: Yes - Inventory; 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

Regulatory Information

Statement:

WARNING: This product can expose you to Furfuryll Alcohol and Methlimidazole a chemicals known to the State of California to cause cancer. For more information, go to www.p65Warnings.ca.gov.

16. OTHER INFORMATION

Revision Date:

06/19/2019

Additional Information About This Product: No data available.

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.