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1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-270-BULK K-Shine Special No. 4 **Product Name:**

Morgan-Gallacher, Inc. **Phone Number: Company Name:** 8707 Millergrove Drive +1 (562)695-1232

Santa Fe Springs, CA 90670

CHEMTREC **Emergency Contact:** +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Oxidizing Liquids, Category 3

Skin Corrosion/Irritation, Category 1A

Serious Eye Damage/Eye Irritation, Category 1

Acute Toxicity: Oral, Category 4 Corrosive To Metals, Category 1







GHS Signal Word: Danger

GHS Hazard Phrases: May intensify fire; oxidizer.

May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Keep out of reach of children. **GHS Precaution Phrases:**

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep away from combustible materials. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands thoroughly after handling.

Take any precaution to avoid mixing with Alkaline or chlorinated products....

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin **GHS Response Phrases:**

> 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

Store locked up.

Phrases: Dispose of contents/container in accordance to local, state and federal regulations.

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



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Inhalation: Inhalation may cause irritation, coughing, sore throat, and in extreme cases, pulmonary

edema.

Skin Contact: Corrosive, causes skin burning. Readily absorbed through skin.

Eye Contact: Causes severe eye burns. Causes serious eye damage.

Ingestion: Ingestion can cause severe irritation and/or burns to the gastrointestinal tract, including

the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal

pain, bleeding, and/or tissue ulceration.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # Hazardous Components (Chemical Name) Concentration

 7697-37-2
 Nitric acid
 <45.0 %</td>

 7664-38-2
 Phosphoric acid
 <10.0 %</td>

 75-75-2
 Methanesulfonic acid
 < 5.0 %</td>

4. FIRST AID MEASURES

Emergency and First Aid

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

Procedures: dangerous area.

In Case of Inhalation: If breathed in, move person into fresh air. Consult a physician.

In Case of Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of

water. Consult a physician.

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: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

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.

Flammable Properties and

Hazards:

No data available.

Hazardous Combustion

No data available.

Products:



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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. dry sand or earth), then place in a chemical waste container. Spill residues may be neutralized with dilute alkaline solution of soda ash or

lime.

7. HANDLING AND STORAGE

Precautions To Be Taken in

Handling:

Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Do not store near combustible materials. Do not add water to this product. Store away from incompatible substances. reducing agents, combustible materials, organic materials, metal alkalis and moisture.

Precautions To Be Taken in Storing:

Store away from incompatible substances. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7697-37-2	Nitric acid	PEL: 2 ppm	TLV: 2 ppm STEL: 4 ppm	No data.
7664-38-2	Phosphoric acid	PEL: 1 mg/m3	TLV: 1 mg/m3 STEL: 3 mg/m3	No data.
75-75-2	Methanesulfonic acid	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 and face shield.

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

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.

Work/Hygienic/Maintenance

Practices:

Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and at the end of workday.

Environmental Exposure

Controls:

Do not let product enter drains.



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9.	PHYSICAL AND	CHEMICAL PROPERTIES
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Physical States: [] Gas [X] Liquid [] Solid Reddish. Purple. Transparent. Liquid. Appearance and Odor:

< 3.0 :Hq **Melting Point:** No data. No data. **Boiling Point:** No data. Flash Pt: No data. **Evaporation Rate:**

No data available. Flammability (solid, gas):

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

Vapor Pressure (vs. Air or

mm Hg):

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): 1.18 - 1.20 Density: 9.92 LB/GA No data. Solubility in Water:

Octanol/Water Partition

No data.

No data.

Coefficient:

No data. **Autoignition Pt: 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, flames and sparks.

Incompatibility - Materials To Alkali metals, Organic materials, acetic anhydride, Acetonitrile, Alcohols, acrylonitrile,

Avoid:

ammonia, Crotonaldehyde. halogenated hydrocarbons, Bases, Metals, Hexalithium disilicide, This product can react with chemically reactive metals, such as, aluminum, zinc, magnesium, copper, etc.

Releases hydrogen gas which forms explosive mixture with air. ketones, Water. Fluorine. Amines, Thiols. Cadmium, bromine, copper, hydrazine, Hydrazinium nitrate, Nitro compounds, Cyanides. Phosphorus trihydride (phosphine) Diphosphine, halides,

Organic halides, May set fire to wood or paper. Polyethers, methyl vinyl ether.

Hazardous Decomposition or Carbon oxides, oxides of phosphorus, nitrogen oxides (NOx), hydrogen gas, Phosphine,

irritating and toxic fumes and gases.

Possibility of Hazardous

Reactions:

Byproducts:

Will occur [] Will not occur [X]

Conditions To Avoid -

No data available.

Hazardous Reactions:



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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# 75-75-2: Methanesulfonic acid: Acute toxicity, LD50, Oral, Rat, 200.0 MG/KG.

OSHA Regulated? No

Acute toxicity, LD50, Skin, Species: Guinea pig, > 2.000 GM/KG.

Acute toxicity, LD50, Oral, Quail, 1.000 GM/KG.

Other Studies: CAS# 7697-37-2: Irritation or Corrosion:

NTP? No

Acute toxicity, LC50, Inhalation, Rat, 67.00 ppm (NO2), 4 H.

Carcinogenicity/Other

Information:

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

Carcinogenicity:

NTP IARC OSHA CAS# **Hazardous Components (Chemical Name) ACGIH** 7697-37-2 Nitric acid n.a. n.a. n.a. n.a.

7664-38-2 Phosphoric acid n.a. n.a. n.a. n.a. 75-75-2 Methanesulfonic acid n.a. n.a. n.a. n.a.

IARC Monographs? 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.

LC50, Green Or Europeon Shore Crab (Carcinus maenas), adult(s), 180000. UG/L, 48

H, Mortality.

LC50, Cockle (Cerastoderma edule), adult(s), 330000. - 1000000. UG/L, 48 H, Mortality.

LC50, Hooknose (Agonus cataphractus), adult(s), 100000. - 330000. UG/L, 48 H,

Mortality.

LC50, Starfish (Asterias rubens), adult(s), 100000. - 330000. UG/L, 48 H, Mortality. CAS# 7664-38-2: Phosphoric acid: Not reported., Rainbow Trout (Oncorhynchus

mykiss), fingerling, 5.190 %, 27 W, Growth.

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

Feeding Behavior.

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

Mortality.

Results of PBT and vPvB

assessment:

Other Studies: CAS# 7697-37-2:

LC50, Cockle (Cerastoderma edule), adult(s), 330000 - 1000000 ug/L, 48H, Mortality

LC50, Starfish (Asterias rubens), adult(s), 100000 - 330000 ug/L, 48H, Mortality

Other Studies: CAS# 7664-38-2:



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

Persistence and

No data available.

Degradability:

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. 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. (Nitric Acid, Phosphoric 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)
7697-37-2	Nitric acid	Yes 1000 LB	Yes 1000 LB	Yes
7664-38-2	Phosphoric acid	No	Yes 5000 LB	No
75-75-2	Methanesulfonic acid	No	No	No

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

[] Yes [X] No	Explosive	[X] Yes [] No	Acute toxicity (any route of exposure)	
[] Yes [X] No	Flammable (gases, aerosols, liquid, or solid)	[X] Yes [] No	Skin Corrosion or Irritation	
[X] Yes [] No	Oxidizer (liquid, solid or gas)	[X] Yes [] No	Serious eye damage or eye irritation	
[] Yes [X] No	Self-reactive	[] Yes [X] No	Respiratory or Skin Sensitization	
[] Yes [X] No	Pyrophoric (liquid or solid)	[] Yes [X] No	Germ cell mutagenicity	
[] Yes [X] No	Pyrophoric gas	[] Yes [X] No	Carcinogenicity	
[] Yes [X] No	Self-heating	[] Yes [X] No	Reproductive toxicity	
[] Yes [X] No	Organic peroxide	[] Yes [X] No	Specific target organ toxicity (single or repeated exposure)	
[X] Yes [] No	Corrosive to metal	[] Yes [X] No	Aspiration Hazard	
[] Yes [X] No	Gas under pressure (compressed gas)	[] Yes [X] No	Simple Asphyxiant	
[] Yes [X] No	In contact with water emits flammable gas	[] Yes [X] No	(Health) Hazard Not Otherwise Classified (HNOC)	
[] Yes [X] No	Combustible Dust			
[] Yes [X] No	(Physical) Hazard Not Otherwise Classified (HNOC)			
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
7697-37-2	Nitric acid	CWA NPDES: No: TSCA: Yes - Inventory: CA PROP 65: No:		

7697-37-2 Nitric acid CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC: Cat. Ilb, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1356; NY Part 597:

Yes: HS; PA HSL: Yes - E

7664-38-2 Phosphoric acid CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No;

CA TAC, Title 8: TAC: Cat. Ilb, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: No; NY Part 597: Yes: HS;



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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

16. OTHER INFORMATION

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Additional Information About No data available.

Methanesulfonic acid

This Product:

75-75-2

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.