

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** SH500  
**Product Name:** Shine 500  
**Company Name:** Shepard Bros., Inc.  
 503 S. Cypress St.  
 La Habra, CA 90631  
**Phone Number:** +1 (562)697-1366  
**Web site address:** www.shepardbros.com  
**Emergency Contact:** CHEMTREC +1 (800)424-9300  
**Product Category:** Acid Cleaner

## 2. HAZARDS IDENTIFICATION

**Oxidizing Liquids, Category 3**

**Skin Corrosion/Irritation, Category 1A**



**GHS Signal Word:** Danger

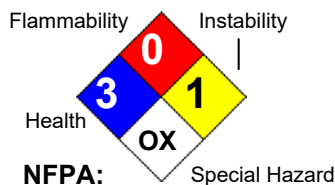
**GHS Hazard Phrases:** H272 - May intensify fire; oxidizer.  
 H314 - Causes severe skin burns and eye damage.

**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/...  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 - Wash hands thoroughly after handling.

**GHS Response Phrases:** 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.  
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.  
 P302+352 - IF ON SKIN: Wash with plenty of soap and water. 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.  
 P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.

**GHS Storage and Disposal Phrases:** P501 - Dispose of contents/containers in accordance with local / regional / national / international regulations.

**Hazard Rating System:**





# SAFETY DATA SHEET

## Shine 500

### Potential Health Effects (Acute and Chronic):

**Inhalation:** Vapors and mists may severely damage contacted tissue and produce scarring. Exposure to high concentrations may cause pulmonary edema and pneumonia.

**Skin Contact:** Direct contact may result in redness, swelling, acid burns, and severe skin damage.

**Eye Contact:** May cause rapid tissue damage, which can lead to permanent eye damage.

**Ingestion:** May cause severe burning of the mouth, throat, and stomach.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7697-37-2	Nitric acid	25.0 - 35.0 %
7664-38-2	Phosphoric acid	5.00 - 10.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

**In Case of Inhalation:** Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical attention immediately.

**In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical attention 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 after 5 minutes and continue rinsing for an additional 15 minutes. Get medical attention immediately.

**In Case of Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. 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:** NA Method Used: Not Applicable

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

**Autoignition Pt:** NA

**Suitable Extinguishing Media:** Foam, CO2, water fog, sand/earth.

**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:** High temperatures and flames may produce: toxic. oxides of nitrogen, oxides of phosphorus, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.



# SAFETY DATA SHEET

## Shine 500

### 6. ACCIDENTAL RELEASE MEASURES

**Protective Precautions, Protective Equipment and Emergency Procedures:** Use proper personal protective equipment as indicated in Section 8.

**Environmental Precautions:** Do not let product enter drains, sewers, watersheds or water systems.

**Steps To Be Taken In Case Material Is Released Or Spilled:** Spills/Leaks: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Neutralize with sodium carbonate or sodium bicarbonate. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

### 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Use as directed. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

**Precautions To Be Taken in Storing:** Store in cool place. Do not store in direct sunlight. Keep away from heat, sparks and flame. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.

**Other Precautions:** Do not mix with chlorinated product. Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7697-37-2	Nitric acid	PEL: 1 mg/m <sup>3</sup>	TLV: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	No data.
7664-38-2	Phosphoric acid	PEL: 2 mg/m <sup>3</sup>	TLV: 2 mg/m <sup>3</sup> STEL: 4 mg/m <sup>3</sup>	No data.

**Respiratory Equipment (Specify Type):** Avoid breathing vapors and mists. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator.

**Eye Protection:** Wear chemical splash goggles and a full-face shield where there is potential for eye contact.

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

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Rubber or neoprene boots.

**Engineering Controls (Ventilation etc.):** Ensure adequate ventilation. Local exhaust is suggested for use in enclosed or confined areas. 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.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid
<b>Appearance and Odor:</b>	Appearance: Reddish. Liquid. Odor: Sharp. pungent odor.
<b>Melting Point:</b>	< 32.0 F (0 C)
<b>Boiling Point:</b>	> 212 F (100 C)
<b>Decomposition Temperature:</b>	NA
<b>Autoignition Pt:</b>	NA
<b>Flash Pt:</b>	NA Method Used: Not Applicable
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Specific Gravity (Water = 1):</b>	1.213
<b>Density:</b>	NA
<b>Bulk density:</b>	NA
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA
<b>Vapor Density (vs. Air = 1):</b>	NA
<b>Evaporation Rate:</b>	NA
<b>Solubility in Water:</b>	Complete
<b>Saturated Vapor Concentration:</b>	NA
<b>Viscosity:</b>	NA
<b>pH:</b>	~ 2
<b>Percent Volatile:</b>	NA
<b>VOC / Volume:</b>	NA
<b>Particle Size:</b>	NA
<b>Heat Value:</b>	NA
<b>Corrosion Rate:</b>	NA

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	High temperatures and flames may produce: toxic. oxides of nitrogen, oxides of phosphorus, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	High temperatures, Ignition sources, Incompatible materials.
<b>Incompatibility - Materials To Avoid:</b>	chlorine or chlorine bleaches, strong alkalis, Mild steel. Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
<b>Hazardous Decomposition Or Byproducts:</b>	High temperatures and flames may produce: toxic. oxides of nitrogen, oxides of phosphorus.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

### 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** Epidemiology: No information available.  
Teratogenicity: No information available.  
Reproductive Effects: No information available.  
Mutagenicity: No information available.  
Neurotoxicity: No information available.  
Other Studies: CAS# 7697-37-2:  
Acute toxicity, LC50, Inhalation, Rat, 67.00 ppm (NO2), 4 H.

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.

**Irritation or Corrosion:** Other Studies: CAS# 7664-38-2:  
Standard Draize Test, Eyes, Species:Rabbit, 119.0 mg.

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

### 12. ECOLOGICAL INFORMATION

**General Ecological Information:** Environmental: No information available.  
Physical: No information available.  
Other: Do not empty into drains.

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

### 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.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

### 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

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7697-37-2	Nitric acid	TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8
7664-38-2	Phosphoric acid	TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8

**16. OTHER INFORMATION**

**Revision Date:** 02/03/2020  
**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.