

Material Safety Data Sheet

SunClean Metal Brightener

1. Production Description

- **Product Name:** Metal Brightener
- **Application of the substance:** Metal Brightener
- **Manufacturer/Supplier:**
Sun Clean Cleaning Ind. LLC
P.O. Box 41475,
SHARJAH – UAE
Tel: +971 (6) 535 20 60
Fax: +971 (6) 534 90 35
www.sun-cleaning.com

Product information:
Tel: +971 (6) 534 90 25
Email: detergents@sun-cleaning.com

2. Hazards identification

- **Primary Routes(s) Of Entry** Eye Contact, Skin Contact, Inhalation and ingestion.
- **Eye Hazards** Severe burns with the possibility of impairment of vision.
- **Skin Hazards** Severe burns.
- **Ingestion Hazards** May cause transient gastrointestinal irritation.
- **Inhalation Hazards** Vapor is irritating to the lungs.

3. Composition / information on ingredients

The product is a blend of the following components.

#	Ingredients	EU Classification	R-phrases	S-phrases
CAS: 7647-01-0	Hydrochloric Acid	(T) , (C) , (N)	R35, R37	(S1/2), S26, S45
CAS: 7664-38-2	Phosphoric Acid	(C)	R34	(S1/2) S26 S45
	Surfactant	N/A	N/A	N/A

4. First aid measures

- Eyes: Considered an irritant characteristic of mild organic acids. In case of eye contact, immediately flush eyes with lots of running water for 15 minutes. Seek medical attention immediately.
- Skin: Mild irritant. Immediately wash skin with soap and water. Remove contaminated clothing and wash before reuse.
- Inhalation: May cause minor irritation and burning to the upper respiratory track.

Material Safety Data Sheet

SunClean Metal Brightener

Ingestion: If swallowed, may cause nausea, diarrhea, and irritation. Seek medical attention immediately.

Emergency & First Aid procedure: **Eye contact:** flush immediately with water for at least at least 15 minutes; **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. **Skin contact:** wash with water; **Ingestion:** give two glasses of water. Induce vomiting. Drink large quantities of water. Consult Physician immediately.

Other: **KEEP OUT OF REACH OF CHILDREN."**

5. Fire and explosion

Flash Point (Deg F)	Not applicable
Auto-ignition Temperature:	Not applicable
Extinguishing Media:	Not combustible
Unusual Fire and Explosion Hazards	None
Flammable limits in air, %	Lower: N/D Upper: N/D
Special Fire Fighting Procedures	None

Extinguishing Media

Carbon Dioxide, dry chemical, foam or water, Class A, BC, or ABC fire extinguishers.

Special Fire Fighting Procedures

Pressure demand self-contained respiratory equipment. There is a latent fire or explosion hazard when in contact with metals due to generation of hydrogen gas. Wear full protective clothing with mask with ammonia vapor canister.

Unusual Explosion Hazard

Pressure may develop in closed containers if temperatures over 150F are achieved. Water may be used to cool adjacent containers.

6. Accidental release measures

Respiratory Protection (Specific Type)

Use NIOSH approved respiratory equipment. For emergencies use a self-contained breathing apparatus.

Respiratory Protection	Wear Mask.
Ventilation	Standard. No special requirements.
Eye Protection	Safety glasses with side shields.
Protective Clothing	Standard rubber gloves, rubber boots
Other Protective Equipment	Eyewash and safety shower should be available.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

In Case Material Released/ Spilled:

Steps to be taken in Case Material is Released or Spilled

Action to take for spills or leaks: Material should be picked up mechanically and placed in drums or other appropriate containers. Flush area with water to remove final traces. Wear rubberized protective equipment and eye goggles.

Waste Disposal Method

Material Safety Data Sheet

SunClean Metal Brightener

Dispose of in accordance with all federal, state and local regulations after neutralizing.

Precautions To Be Taken In Handling And Storing

Prevent all contact with eyes or skin. Avoid breathing irritating vapors. Storage between 40°F and 80° F are recommended. Store only in approved containers. (Avoid glass and most metals).

7. Handling and storage

Handling Precautions:	Keep out of reach of children. Do not inhale. Avoid contact with skin and eyes. Do not taste or swallow. Wash thoroughly after handling.
Storage Precautions:	Keep containers tightly closed.
Work/Hygienic Practices:	Wash thoroughly after handling. Avoid any kind of skin or eye contact.

8. Reactivity Data

Stability	Stable
Incompatibility	Strong oxidizers, reducing agents, acids, bases
Hazardous Decomposition Products	None known
Hazardous Polymerization	Will not occur

9 Physical and chemical properties

Physical State:	Liquid
Appearance	Pink Liquid
Solubility in Water	Soluble
Odor	Acidic
Specific Gravity (approx.)	1.11 @ 68 Deg F
Melting Point	not applicable
pH	1 - 2
Evaporation Rate (water = 1)	1

10. Stability and reactivity

Stability:	Stable
Hazardous Polymerization:	None
Incompatible Materials:	Avoid strong oxidizing and reducing agents. Avoid contact with strong acids.
TOXICOLOGICAL INFORMATION:	No Data Available
ECOLOGICAL INFORMATION:	No Data Available

Material Safety Data Sheet

SunClean Metal Brightener

11. Toxicological information

LD 50 Oral Rat: 1,530 mg/kg

LD 50 Dermal Rabbit: 2,740 mg/kg

12. Ecological information

LC50 Crustaceans (48 hours)

Min: 240 mg/l

Max: 260 mg/l

Med: 250 mg/l

13. Disposal considerations

- Disposal must be made according to official regulations.
- Empty contaminated packaging thoroughly.

14. Transport information

The finished product is non-hazardous under DOT.

15. Regulatory information

Code letter and hazard designation of product:



Xi Irritant

R 36 Irritating to eyes

R 37 Irritating to respiratory system

R 38 Irritating to skin

Hazard-determining components of labeling:

Hydrochloric Acid

Phosphorus Acid

Risk phrases:

36 – irritant to eyes.

37 – irritant to respiratory system

38 – irritant to skin

Safety phrases:

1 / 2 – Keep locked up and out of reach of children

13 – Keep away from food, drink and animal foodstuffs

24 / 25 – Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.

26 – Avoid contact with eyes, rinse immediately with plenty of water and seek medical advice

46 - If swallowed, seek medical advice immediately.

Material Safety Data Sheet

SunClean Metal Brightener

16 Other information

Relevant R-phrases

- 22 - Harmful if swallowed.
- 36 - Irritating to eyes.
- 36/38 - Irritating to eyes and skin.
- 37/38 - Irritating to respiratory system and skin.
- 41 - Risk of serious damage to eyes.
- 42 - May cause sensitisation by inhalation.