# Safety Data Sheet

**Brand:** MAXTITE

**Issue Date:** 22-Nov-2024 **Revision Date:** 22-Nov-2024 **Version** 01

## 1. IDENTIFICATION

**Product identifier**

**Product Name** MAXTITE Phosphoric Acid 85% Solution, Food Grade (1 Gallon). MAXTITE Phosphoric Acid 85% Solution, Food Grade (32 fl oz).

**Other means of identification**

**SDS #** 674816, 674814

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Industrial, Manufacturing, and Laboratory use.

**Details of the supplier of the safety data sheet**

**Supplier Address**

Pacific Innovations LLC
129 Seegers Avenue
Elk Grove Village, IL 60007
(708) 320-2088

**Emergency telephone number**

**Emergency Telephone** INFOTRAC 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear liquid **Physical state** Viscous Liquid **Odor** Odorless

**Classification**

| | |
|---|---|
| Corrosive to metals | Category 1 |
| Acute toxicity | Category 4 |
| Skin corrosion | Category 1B |
| Serious eye damage | Category 1 |

**Signal Word**

**Danger**

**Hazard statements**

May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.

**Precautionary Statements - Prevention**

Keep only in original container
Wash skin thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements – Response**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER/ doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/ doctor
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
Absorb spillage to prevent material damage.

**Precautionary Statements - Storage**
Store locked up
Store in corrosion resistant container with a resistant inner liner.

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant.

**Other hazards**
None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|---|---|---|
| Phosphoric Acid | 7664-38-2 | 85 |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General Advice** Move out of dangerous area. Consult a doctor/physician. Provide this SDS to medical personnel for treatment. Do not leave the victim unattended.

**Eye Contact** IF IN EYES: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Immediately flush eyes thoroughly with plenty of water. Remove contact lenses. Continue rinsing eyes during transport to hospital.
SEEK MEDICAL ATTENTION IMMEDIATELY.

**Skin Contact** IF ON SKIN (or hair): Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Take victim immediately to hospital. Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation persists after washing, seek medical attention.

**Inhalation** IF INHALED: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

**Ingestion** IF SWALLOWED: Clean mouth with water. Drink plenty of water. Keep respiratory tract cleaner. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY!

**Most important symptoms and effects, both acute and delayed**

| | |
|---|---|
| **Symptoms** | **Skin**: Burning, itching, redness, inflammation, and swelling of exposed tissues.<br>**Eyes**: Eye burns, watering eyes.<br>**Respiratory**: Burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache or nausea.<br>**Ingestion**: Burning, choking, nausea, vomiting, severe pain. |

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Dry powder. Water mist. Water may be ineffective.

**Unsuitable Extinguishing Media** High volume water jet

**Specific Hazards Arising from the Chemical**

Do not allow run-off from firefighting to enter drains or water ways.

**Hazardous combustion products** Phosphorous oxides. Toxic fumes

**Protective equipment and precautions for firefighters**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **Personal Precautions** | Use personal protective equipment as required. Wear protective gloves/protective clothing and eye/face protection. Evacuate unnecessary personnel. |
| **For Emergency Responders** | Follow all firefighting procedures in Section 5. Use personal protection recommended in Section 8. |

**Environmental precautions**

| | |
|---|---|
| **Environmental precautions** | Prevent from entering drains. Prevent further leakage or spillage if safe to do so. See Section 12, Ecological Information. Notify authorities if liquid enters sewers or public waters. |

**Methods and material for containment and cleaning up**

| | |
|---|---|
| **Methods for Containment and Clean-up** | Neutralize with chalk, alkali solution or ammonia. Contain spillage, then collect with non-combustible absorbent material, (e.g., sand, silica gel, acid binder, universal binder, sawdust) and place in container for disposal according to local and national regulations. |

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

| | |
|---|---|
| **Advice on Safe Handling** | Avoid formation of aerosol. Do not breathe vapors. Avoid contact with skin and eyes. For personal protection see Section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on metal tray. Dispose of rinse water in accordance with local and national regulations. |

**Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| **Storage Conditions** | Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |

**Incompatible Materials** Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH REL |
|---|---|---|---|
| Phosphoric acid<br>7664-38-2 | STEL: 0.75 ppm<br>TWA: 0.25 ppm | TWA: 0.25 ppm<br>TWA: 1 mg/m$^3$ | TWA: 0.25 ppm<br>TWA: 1 mg/m$^3$<br>STEL: 0.75 ppm<br>STEL: 3 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Safety shower, eye wash fountain, and washing facilities should be readily available. Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Chemical safety goggles/faceshield. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. No personal respiratory protective equipment normally required.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | | |
| **Appearance** | Viscous liquid | **Odor** | odorless |
| **Color** | Clear, colorless | **Odor Threshold** | No data available. |

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | < 1 | |
| **Melting point / freezing point** | 21 C | |
| **Boiling point / boiling range** | 158 C | |
| **Flash point** | Not Flammable | |
| **Evaporation Rate** | No data available | |
| **Flammability (Solid, Gas)** | Not Flammable | |
| **Flammability Limit in Air** | Not Flammable | |
| **Vapor Pressure** | 0.3 kPa at 20C | |
| **Vapor Density** | 3.4 | |
| **Relative Density** | 1.685 g/cm3 at (25C / 77F) | |
| **Water Solubility** | Soluble in water | |
| **Solubility in other solvents** | No data available | |
| **Partition Coefficient** | No data available | |
| **Autoignition temperature** | No data available | |
| **Decomposition temperature** | No data available | |
| **Kinematic viscosity** | No data available | |
| **Dynamic Viscosity** | No data available | |
| **Explosive Properties** | Not an explosive | |
| **Oxidizing Properties** | Not an oxidizer | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air.

**Conditions to Avoid**
Extremes of temperature and direct sunlight.

**Incompatible materials**
Metals, bases, alcohols, aldehydes, ketones, phenols, esters, halogenated hydrocarbons, amines, cyanides, sulfides, fluorides.

**Hazardous decomposition products**
Phosphorous oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes serious eye damage.

**Skin Contact** Corrosive to the skin.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Phosphoric Acid<br>7664-38-2 | = 1530 mg/kg ( Rat ) | = 2740 mg/kg ( Rabbit ) | - |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Not classified. No adverse effect observed.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Based on acute aquatic toxicity values, not classified.

**Component Information**

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Phosphoric Acid<br>7664-38-2 | Not available | Not available | Not available |

**Persistence/Degradability**
No data available

**Bioaccumulation**
No data available

**Mobility**
No data available

**Other Adverse Effects**
No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**
**UN/ID No** UN1805
**Proper Shipping Name** Phosphoric acid solution
**Hazard class** 8
**Packing Group** III

**IATA**
**UN number** UN1805
**Proper Shipping Name** Phosphoric acid solution
**Transport hazard class(es)** 8
**Packing Group** III

**IMDG**
**UN number** UN1805
**Proper Shipping Name** PHOSPHORIC ACID SOLUTION
**Transport hazard class(es)** 8
**Packing Group** III

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical name | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|---|
| Phosphoric Acid | X | ACTIVE | X | X | X | X | X | X | X |

**Legend:**
***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*
***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*
***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

## US Federal Regulations

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Phosphoric Acid<br>7664-38-2 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

### SARA 311

Reactive Hazard, Acute Health Hazard

### SARA 312

Reactive Hazard, Acute Health Hazard

### SARA 313

Not Listed

### CWA (Clean Water Act)

This material contains a Hazardous Substance listed under the U.S. Clean Water Act, Section 11, Table 116.4A, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania | Rhode Island |
|---|---|---|---|---|
| Phosphoric Acid<br>7664-38-2 | X | - | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | 3 | 1 | 0 | Not determined |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical hazards** | **Personal Protection** |
| | Not determined | Not determined | Not determined | Not determined |

**Issue Date:** 22-Nov-2024
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**Revision Note:** New format

### Disclaimer

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**