



MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: PHOSPHORIC ACID 85%
2. CHEMICAL NAME: PHOSPHORIC ACID 85%
3. SYNONYMS:
4. CAS NUMBER: Mixture
5. COMPOSITION PHOSPHORIC ACID (7664-38-2) – 85.000%
WATER (7732-18-5) – 15.000%

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

6. PROPERTIES: PH: N/A
BP/BP Range: N/A
MP/MP Range: N/A
FREEZING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SATURATED VAPOR CRONC. : N/A
SG/DENSITY: 1.685 g/cm³
BULK DENSITY: N/A
ODOR THRESHOLD: N/A
VOLATILE %: N/A
VOC CONTENT: N/A
WATER CONENT: N/A
SOLVENT CONTENT: N/A
EVAPORATION RATE: N/A
VISCOSITY: N/A
PARTITION COEFFICIENT: N/A
DECOMPOSITION TEMP. : N/A
FLASH POINT F: N/A
FLASH POINT C: N/A
EXPLOSION LIMITS: N/A
AUTOIGNITION TEMP: N/A
REFRACTIVE INDEX: 1.433
SOLUBILITY
SOLUBILITY IN WATER: 1M in H₂O, 20 c, complete, colorless
STABILITY AND REACTIVITY
STABILITY
MATERIALS TO AVOID: Strong bases, finely powered metals
HAZADOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.
HAZARDOUS POLYMERIZATION: Will not occur

7. HAZARDS: EMERGENCY OVERVIEW: Corrosive, Causes burns. Harmful if swallowed.
TARGET ORGANS: Liver, blood
HMIS RATING: Health – 3, Flammability – 0, Reactivity – 0
NFPA RATINGS: Health – 3, Flammability – 0, Reactivity – 0
Chronic hazards present.

8. FIRE FIGHTING AUTOIGNITION TEMP. : N/A
MEASURES: EXTINGUISHING MEDIA: SUITABLE: dry chemical powder, carbon dioxide, or appropriate foam.



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

FIRE-FIGHTING: PROTECTIVE EQUIPMENT: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
SPECIFIC HAZARDS: Emits toxic fumes under fire conditions.

9. **PERSONAL ENGINEERING CONTROLS:** Safety shower and eye bath. Use only in a chemical fume hood.

PROTECTION PERSONAL PROTECTIVE EQUIPMENT

MEASURES: RESPIRATORY: NIOSH/MSHA-approved respirator
HAND: Compatible chemical-resistant gloves
EYE: Chemical safety goggles
OTHER: Faceshield (8-inch minimum).

10. **FIRST AID PROCEDURES:** **ORAL EXPOSURE:** If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

INHALATION EXPOSURE: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE: In case of contact with eye, flush with copious amounts of water for least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call physician.

11. **EXPOSURE LIMITS:** USA – ACGIH – STEL – 3MG/M3

USA – ACGIH – TWA – 1MG/M3

USA – MSHA standard-air – TWA – 1MG/M3

USA – OSHA – PEL – 8H TWA 1 MG/M3

USA – NIOSH – TWA STEL – 1 MG/M3 3 MG/M3

12. **TOXICOLOGICAL ROUTE OF EXPOSURE**

INFORMATION: SKIN CONTACT: Causes burns

SKIN ABSORPTION: May be harmful if absorbed through the skin

EYE CONTACT: Causes burns

INHALATION: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

INGESTION: Harmful if swallowed

TARGET ORGANS OR SYSTEMS: Liver, Blood, Bone marrow

SIGNS AND SYMPTOMS OF EXPOSURE: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. May cause cyanosis (blue-gray coloring of skin and lips caused by lack of oxygen).

RTECS Number: TB6300000

TOXICITY DATA

ORAL – Rat: 1,530 mg/kg (LD50)

Remarks: Behavioral: Somnolence (general depressed activity).

Kidney, Ureter, Bladder: Hematuria. Skin and Appendages: Other: Hair.

INHALATION – Rat: > 850 mg/m³ (LC50)

SKIN – Rabbit: 2,740 mg/kg (LD50)

Remarks: Behavioral: Somnolence (general depressed activity). , Behavioral: Excitement.

IRRITATION DATA

SKIN – Rabbit: 595 mg 24H

Remarks: Severe irritation effect

EYES –Rabbit: 119 mg



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

Remarks: Severe irritation effect

13. ECOLOGICAL INFORMATION:

14. DISPOSAL APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
CONSIDERATIONS: Contact licensed professional waste disposal service to dispose of this material
Observe all federal, state, and local environmental regulations.

15. REGULATORY INFORMATION SARA 313: yes
DEMINIMIS: 1%
TSCA INVENTORY ITEM: yes

16. TRANSPORT INFORMATION DOT
PROPPER SHIPPING NAME: Phosphoric acid
UN#: 1805
CLASS: 8
PACKING GROUP: Packing group III
PIH: Not PIH
IATA
PROPPER SHIPPING NAME: Phosphoric acid
IATA Number: 1805
HAZARD CLASS: 8
PACKING GROUP: III
EU DIRECTIVES CLASSIFICATION
SYMBOL OF DAMAGE: C
INDICATION OF DANGER: Corrosive
RISK STATEMENTS: Causes burns, R: 34
US CLASSIFICATION AND LABEL TEXT
INDICATION OF DANGER: Corrosive
RISK STATEMENTS: Causes burns. Harmful if swallowed
SAFETY STATEMENTS: In case of contact with eyes, rise immediate with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear suitable protective clothing, gloves, and eye/face protection
US STATEMENTS
TARGET ORGANS: Liver, Blood

17. HANDLING & HANDLING
STORAGE: USER EXPOSURE: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
STORAGE
SUITABLE: Keep tightly closed. Store in a cool dry place

18. ACCIDENTAL RELEASE MEASURES PROSEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL: Evacuate area
PROSEDURES OF PERSONAL PRECAUTIONS: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves
METHODS FOR CLEANING: Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.