Phosphoric Acid, 15M (85%)



Section 1

Product Description

Product Name: Phosphoric Acid, 15M (85%) **Recommended Use:** Science education applications

Synonyms: ortho-Phosphoric Acid

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER





Fatal if swallowed or in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic to aquatic life.

GHS Classification:

Acute Toxicity - Dermal Category 1, Acute Toxicity - Oral Category 1, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 2

Section 3

Composition / Information on Ingredients

Chemical NameCAS #%Phosphoric Acid85Water15

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact: IF ON SKIN: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated

clothing. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse

mouth. Do NOT induce vomiting.

Section 5

Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Flammable Hydrogen gas may be produced over long periods of exposure to Aluminum,

Tin, Lead, and Zinc. Fire or excessive heat may produce hazardous decomposition

products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly

after handling. Do no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers

hazardous; use caution. Do not ingest or take internally.

Storage: Store locked up. Store in a secure area suitable for corrosives.

Keep locked up and out of the reach of children.

Section 8

Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Phosphoric Acid
 1 mg/m3 TWA
 3 mg/m3 STEL
 1 mg/m3 TWA
 N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

Section 9

Physical Data

Formula: H3PO4 Molecular Weight: 98.00 Appearance: Colorless

Odor: None

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: 100 C

Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: 5.7 mm Hg @ 20°C Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.58 Solubility in Water: Soluble

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available

Viscosity: No data available
Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical Name Dermal LD50 CAS Number Oral LD50 Inhalation LC50

Phosphoric Acid Oral LD50 Rat INHALATION 1.25 GM/KG LC50 Rat 25.5

Oral LD50 Mouse 1.25 GM/KG

INHALATION LC50 Mouse 25.5

MG/M3

MG/M3

Water Oral LD50 Rat

90000 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP **OSHA** No data available Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 **Ecological Data**

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Phosphoric Acid 96 HR LC50 GAMBUSIA AFFINIS 3 - 3.5 MG/L

12 HR EC50 DAPHNIA MAGNA 4.6 MG/L

Water No data available

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: UN1805 Not regulated for air transport by IATA.

PHOSPHORIC ACID, SOLUTION

Class 8 P.G. III

Regulatory Information Section 15

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** Number

Phosphoric Acid Nο 5000 lb 5000 lb final Nο Nο

RQ RQ; 2270 kg

final RQ

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary	
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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health