

Safety Data Sheet

Better Chemistry. Better Business

AHCOPHOS 11

Revised: 12/31/14

1 IDENTIFICATION

Product Code : 2201003

Recommended use of the chemical and restrictions on use: Industrial applications

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3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Phosphoric Acid		7664-38-2	Approx 60%
Ethylene Glycol Butyl Ether	-	111-76-2	Approx 20%

4 FIRST AID

After Inhalation:

Remove exposed person to fresh air and support breathing as needed.

After Skin Contact:

Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice.

After Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Call a physician or poison control center immediately.

After Ingestion:

Call a physician or poison control center immediately. Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that the stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

Most Important Symptoms/Effects

Inhalation:

Symptoms may include irritation to the nose, throat and upper respiratory tract.

Eye:

Adverse symptoms may include the following: Symptoms may include redness, pain, blurred vision, eye burns and permanent eye damage.

Skin:

Adverse symptoms may include the following: May cause redness, pain and severe skin burns.

Ingestion:

Adverse symptoms may include the following: Symptoms may include severe burns of the mouth, throat and stomach. Ingestion of large quantities may cause gastrointestinal irritation, vomiting and diarrhea.

7 HANDLING AND STORAGE

Precautions for safe handling: Avoid breathing dust, fumes, gas, mist, vapors and sprays.
Wash hands thoroughly after handling.
Do not get in eyes, or on skin, or on clothing.

Conditions for safe storage, inc any incompatibilities: Keep container tightly closed.
Do not allow material to freeze.
Store in corrosive resistant container.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Phosphoric Acid	ACGIH	1 mg/m ³	
Ethylene Glycol Butyl Ether	ACGIH	20 ppm (skin)	-

ACGIH - American Control of Governmental Hygenists
OSHA - Occupational Safety and Health Administration

Ventilation: Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit (s) (PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).

Respiratory Protection: Not required if proper ventilation controls are employed.

Protective Gloves: Acid resistant rubber.

Eye Protection: Wear chemical safety goggles.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear amber liquid

Odor: Sweet odor

Odor Threshold: N/A

PH: Below 1

Melting Point/Freezing Point: N/A

Initial Boiling Point and Boiling Range: N/A

Flash Point: N/A

Evaporation Rate: N/A

Flammability (solid, gas): N/A

Upper/Lower flammability or explosive limits: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Relative Density: 1.41

Solubility (ies): Complete in water

Partition Coefficient; n-octanol/water: N/A

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

10 STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity vavailable to this product or its ingredients.
Chemical Stability:	Stable under normal conditions Corrosive in presence of steel
Possibility of Hazardous Reactions:	Reacts violently with strong bases. Contact with metals may release flammable hydrogen gas.
Conditions to Avoid:	Extreme humidity, excess heat.
Incompatible Materials:	Metals, strong oxidizing agents and strong bases. Do not mix with solutions containing bleach or ammonia.
Hazardous Decomposition Products:	Under fire- Oxides of phosphorous at > 300 °C (572 °F)

11 TOXICOLOGICAL INFORMATION

Oral Administration:	Phosphoric Acid-LD50-(Rat-female)-1.7 mL/100 g body weight
Oral Administration:	Ethylene Glycol monobutyl ether-LD50(Rat)-1300 mg/kg
Inhalation:	Ethylene Glycol monobutyl ether-LC50(Rat)-486 ppm 4 h
Dermal administration:	Ethylene Glycol monobutyl Ether-LD50(Rabbit)-0.45 ml/kg 24 h
Immediate effects:	Irritation or burns to skin, eyes and respiratory system
Long term exposure:	Ethylene Glycol Monobutyl Ether-In animals, effects have been reported on the following organs: blood(hemolysis) and secondary effects on the kidney and liver . HUMAN red blood cells have been shown to be significantly less sensitive than those of rodents and rabbits.
Cancer Hazard:	Not listed by IARC, NTP, OSHA, ACGIH
Cancer Hazard:	Ethylene Glycol Monobutyl Ether-Group 3-Not classifiable as to carcinogenicity to humans. ACGIH:Group A3-Confirmed animal carcinogen with unknown relevance to humans.
Routes of Exposure	Eyes, Skin, Inhalation, Ingestion

12 ECOLOGICAL INFORMATION

Crustations, Daphnia magna,	Phosphoric Acid-EC50 (48) >100 mg/L
Persistence and Degradability:	Not Available
Bioaccumulation potential:	Not known
Soil/Sediment Result:	Phosphoric Acid itself will not absorb into soil, in most cases it will dissociate into PO ₄ ³⁻ and H ⁺ ions in the soil pore water, and/or react with minerals present in the soil, in particular calcium, iron and aluminum. Except in very specific circumstances (acidic soils, certain mineral soil types, very high dosage of phosphoric acid) phosphoric acid will therefore not penetrate beyond the surface layer of soil and will not reach groundwater table.
Other adverse effects(such as hazardous to the ozone layer):	Not known

13 DISPOSAL CONSIDERATION

14 TRANSPORT INFORMATION

UN Number:	1805
UN Proper Shipping Name:	PHOSPHORIC ACID, SOLUTION
Transport Hazard Class (es):	8
Packing Group:	III
ERG:	154

