



HI 70434 85% Phosphoric Acid Solution

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 OSHA Regulation 29 CFR 1910.1200 Canadian Regulation SOR/88-66

 Revision Date:
 2009-06-10

 Reason for Revision:
 29 CFR 1910.1200 and SOR/88-66 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 70434 85% Phosphoric Acid Solution

Application: For Chemical Analysis

Company Information (USA):

Technical Service Contact Information:

USA Emergency Contact Information: International Emergency Contact Information: E-mail Address: Hanna Instruments, Inc. 584 Park East Dr, Woonsocket, Rhode Island, USA 02895

> 1-800-426-6287 (8:30AM - 5:00PM ET) +1-401-766-4260 (8:30AM - 5:00PM ET)

1-800-424-9300 (Chemtrec 24Hr. Emergency)

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Causes burns.

SECTION 3:	COMF	POSITION AND COMPONENT INFORMATION
Component:	Phospho	ric Acid
EC-No.:	231-633-	2
CAS-No.:	7664-38-	2
Hazard:	С	
Phrases:	R: 34	
Content:	> 85%	
SECTION 4:	FIRST	AID MEASURES
After Inhalation	n:	Remove to fresh air. Call in a physician.
After Skin Con	itact:	Wash affected area with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing
After Eye Cont	tact:	Rinse out with plenty of water for at least 10 minutes. Immediately call in ophthalmologist
After Swallowi General Inform	•	Make victim drink plenty of water (if necessary several liters), avoid vomiting (risk of perforation!). Immediately call in physician. Do not attempt to neutralize. Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

Non-combustible. Ambient fire may liberate hazardous vapors. The following may develop in event of fire: Phosphorus Oxides

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Cool container with spray water from a safe distance. Contain escaping vapors with water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



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<u>SECTION 6:</u> ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Take up with liquid-absorbent and neutralizing material.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of vapors/aerosols. Do not inhale substance.

Tightly closed. In a well-ventilated place at +15 to +25 $^\circ\text{C},$ protected from light.

<u>SECTION 8:</u> EXPOSURE CONTROL/PERSONAL PROTECTION

Туре	Value	Source	T	ype	Value	Source	
Phosphoric	Acid						
TWA (8hr)	1 mg/m³	Canada (Ontario	יד (מ	WA (8hr)	1 mg/m³	Canada (Quebe	ec)
TWA (8hr)	1 mg/m³	Hungary	יד	WA (8hr)	1 mg/m³	Poland	
TWA (8hr)	1 mg/m³	Romania	יד	WA (8hr)	1 mg/m³	USA (ACGIH)	
TWA (8hr)	1 mg/m³	USA (OSHA)					
Engineerin	g:						
Personal F	general industrial h Protective Equipm • clothing should be	ent:	<i>r</i> for the working pla	ce, dependi	ng on concentrati	on and quantity of the	hazardous
	es handled. y Protection:		Protective Gloves			Eye Protection:	
•	•					•	
Required Industrial	•	sols are generated.	Rubber or plastic	;		Goggles or face	mask
Change c	ontaminated clothi	ng. Wash hands afte	r working with subst	ance.			
SECTION		L/CHEMICAL PR					
Appearance			OPERTIES Odor:	Odorles	e	Density at 20° (C : 1 71 a/cm^3
Melting Poi		, inquita	Boiling Point:	~ 158 °C		Solubility:	Soluble
pH at 20° C.		100 g/L in	Explosion Limit			Flash Point:	NA
Thermal De							
SECTION 1	<u>IO:</u> STABILIT	Y AND REACTIV	ΊΤΥ				
Conditions	to be Avoided:			Hazardous	Decomposition	Products:	
Strong He	ating			In the eve	ent of fire: See see	ction 5.	
Hazardous	Polymerization:			Substance	s to be Avoided	,	
Will not or	cur.			Bases, me	etallic oxides, me	tals, metal alloys: form	ned could be: hydrogen
Further Inf	ormation:						
		vith iron/iron-containin					

Storage:

compounds, steel, aluminium and their compounds. Hydrogen may form upon contact with metals (danger of explosion!).



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SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Specific symptoms in anim Eye irritation test (rabbit): k Skin irritation test (rabbit): Sensitization: Experience in man: No ser Bacterial mutagenicity: Am	ourns. burns. Subacute to chronic toxicity nsitizing potential.
Potential Health Effects:	
Inhalation:	Irritation symptoms in the respiratory tract.
Skin Contact:	Burns.
Eye Contact:	Conjunctivitis, burns. Risk of blindness!.
Ingestion:	Burns, strong pain (risk of perforation!). Systemic effects: shock, spasms.
Further Data:	Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity:

Chronic Toxicity:

Not Available

Phosphoric Acid

LD50: Oral - Rat - 1530 mg/kg

LD50: Dermal - Rabbit - 2740 mg/kg

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Biologic degradation: Inorganic substance. Does not cause biological oxygen deficit. Ecotoxic effects: Biological effects: Harmful effect on aquatic organisms. Caustic even in diluted form. Harmful effect due to pH shift. Fish toxicity: Gambusia affinis LC50: 138 mg/L /96 h (calculated on the pure substance). aquatic organisms LC50: 100-1000 mg/L /96 h (calculated on the pure substance). Bacterial toxicity: activated sludge EC50: 270 mg/L (calculated on the pure substance).

Further Data: Depending on the concentration, phosphorus compounds may contribute to the eutrophication of water supplies. Do not allow to enter waters, waste waters, or soil!

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

Sea:

SECTION 14: TRANSPORTATION INFORMATION

Land:

ADR/RID: 8, III UN-No.: 1805 Name : PHOSPHORIC ACID, LIQUID IMDG: 8/UN 1805/PG III Name: PHOSPHORIC ACID, LIQUID EMS: F-A S-B

Transport data applies to the COMPLETE KIT!

Air:

ICAO/IATA: 8/UN 1805/PG III Name: PHOSPHORIC ACID, LIQUID



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Labeling ac Symbol:	ccording to EC Directives: C: Corrosive			
•	34: Causes burns.			
•	26-45: In case of contact with		nty of water and seek medical advice. In c	ase of
Contains:	Phosphoric acid			
	<u>16:</u> OTHER INFORMAT	ION Revision Information		Leaend
	16: OTHER INFORMAT rrases under Section 3			Legend
Text of R-ph	arases under Section 3		2009-06-10	NA: Not Applicable
Text of R-ph	arases under Section 3	Revision Information	2009-06-10 2008-12-01	U U
	arases under Section 3	Revision Information Revision Date:		NA: Not Applicable

THE PROPERTIES OF THE PRODUCT.