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**FISHER SCIENTIFIC CO CHEMICAL DIV.**

**PHOSPHORIC ACID LIQUID**

**SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MSDS Name: PHOSPHORIC ACID LIQUID  
 Manufacturer Name: FISHER SCIENTIFIC CO CHEMICAL DIV.  
 Address:  
 1 REAGENT LANE  
 City: FAIR LAWN  
 State: NJ  
 Zip: 07410  
 Country: US  
 Business Phone: 201-796-7100  
 For information in North America, call: 201-796-7100  
 Health Phone: 201-796-7100 OR 201-796-7523  
 Manufacturer MSDS Creation Date:  
 02/11/1994

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**SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	Percent	
PHOSPHORIC ACID (SARA III)	7664-38-2	85.0	

RTECS:  
 TB6300000  
 OSHA PEL TWA: 1 MG/M3/3 STEL  
 ACGIH TLV TWA: 1 MG/M3/3 STEL; 9192  
 ACGIH STEL/Ceiling: N/P  
 Comments:  
 Other REC Limits: NONE SPECIFIED ; EPA Rpt Qty: 5000 LBS ; DOT Rpt Qty: 5000 LBS ;  
 Ozone Depleting Chemical: N ;

Chemical Name	CAS#	Percent	
WATER	7732-18-5	15	

RTECS:  
 ZC0110000  
 OSHA PEL TWA: NOT ESTABLISHED  
 ACGIH TLV TWA: NOT ESTABLISHED  
 ACGIH STEL/Ceiling: N/P  
 Comments:  
 Other REC Limits: NONE SPECIFIED ; Ozone Depleting Chemical: N ;

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**SECTION 3 : HAZARDS IDENTIFICATION**

**Applies to all Ingredients.:**

Route of Exposure:

Inhalation: YES Skin: YES Ingestion: YES

Potential Health Effects:

MAY CAUSE RESPIRATORY TRACT IRRITATION, MUCOUS MEMBRANES BURNS, CENTRAL NERVOUS SYSTEM EFFECTS, SKIN BURNS, EYE BURNS, CIRCUMORAL BURNS WITH DISCOLORATION AND CORROSION OF THE MUCOUS MEMBRANES OF THE MOUTH, THROAT AND ESOPHAGUS. ASPIRATIONHAZARD.

Carcinogenicity:

THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

OSHA Designation: NO

NTP Designation: NO

IARC Designation: NO

Signs/Symptoms:

RESPIRATORY TRACT IRRITATION, COUGHING, CHOKING, DIZZINESS, HEADACHE, NAUSEA, WEAKNESS, PULMONARY EDEMA, TIGHTNESS IN CHEST, ERROSION OF TEETH, SKIN BURNS, EYE BURNS, LACRIMATION, PHOTOPHOBIA, DISCOLO RATION AND CORROSION OF THE MUCOUS MEMBRANES OF THE MOUTH, THROAT AND ESOPHAGUS, UNCONSIIOUSNESS, COMA, DEATH.

Aggravation of Pre-Existing Conditions:

NONE SPECIFIED BY MANUFACTURER.

LD 50 LC 50 Mixture

ORAL LD50 (RAT) = 1530 MG/KG

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#### **SECTION 4 : FIRST AID MEASURES**

First Aid

INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET. GET MEDICAL ATTENTION. SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. DILUTE IMMEDIATELY BY DRINKING WATER OR MILK. CALL PHYSICIAN. TREAT FOR SHOCK.

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#### **SECTION 5 : FIRE FIGHTING MEASURES**

Flash Point:

NONFLAMMABLE

Flash Point Method:

N/P

Upper Flammable or Explosive Limit: NOT GIVEN

Lower Flammable or Explosive Limit: NOT GIVEN

Auto Ignition Temperature: N/A

Extinguishing Media:

DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM

Fire Fighting Instructions:

MOVE CONTAINER FROM FIRE AREA IF CAN DO SO WITHOUT RISK. APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS

OUT.

Unusual Fire Hazards:

AVOID BREATHING CORROSIVE VAPORS. KEEP UPWIND. STAY AWAY FROM ENDS OF TANKS.

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

Leak Response:

DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF CAN DO SO WITHOUT RISK. TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR DISPOSAL. RQ = 5000 POUNDS

Other Precautions:

STORE AWAY FROM INCOMPATIBLE SUBSTANCES. MAY BURN BUT DOES NOT IGNITE READILY. FLAMMABLE, POISONOUS GASES MAY ACCUMULATE IN TANKS AND HOPPER CARS. MAY IGNITE COMBUSTIBLES (WOOD, PAPER, OIL, ETC.)

Neutralizing Agent

AGRICULTURAL LIME, SLAKED LIME, CRUSHED LIMESTONE OR SODIUM BICARBONATE.

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## SECTION 7 : HANDLING and STORAGE

Handling:

PROTECT AGAINST PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL VENTILATED PLACE, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE.

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## SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Ventilation System:

PROVIDE LOCAL EXHAUST VENTILATION SYSTEM TO MEET PUBLISHED EXPOSURE LIMITS.

Hand Protection Description:

RECOMMENDED

Eye/Face Protection:

SPLASH PROOF GOGGLES

Respiratory Protection:

IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH RESPIRATOR SELECTION.

Other Protective:

EYE WASH FOUNTAIN, QUICK DRENCH SHOWER IN IMMEDIATE WORK AREA.

Other:

REMOVE CONTAMINATED CLOTHING, SHOES IMMEDIATELY.

Work Hygienic Practices

WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

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## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:

ODORLESS, COLORLESS SYRUPY LIQUID

pH:  
1.5  
Decomposition Temperature:  
UNKNOWN  
Vapor Pressure:  
2.2  
Vapor Density:  
NOT GIVEN  
Boiling Point:  
316F,158C  
Melting Point:  
70.0F,21.1C  
Solubility In Water:  
COMPLETE  
Specific Gravity:  
1.685  
Evaporation Point:  
NOT GIVEN  
Percent Volatile:  
N/K  
Viscosity:  
N/P  
Other:  
Corrosion Rate: UNKNOWN

HCC  
C1

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## **SECTION 10 : STABILITY AND REACTIVITY**

Chemical Stability:  
YES  
Conditions to Avoid:  
REACTS MILDLY WITH WATER AND EVOLVES HEAT.  
Incompatibilities with Other Materials:  
BASES, CHLORIDES, STAINLESS STEEL, FERROUS METALS AND ALLOYS, GRANITE, METALS,  
NITROMETHANE, PLASTICS, RUBBER, PORCELAIN  
Hazardous Polymerization:  
NO  
Hazardous Decomposition Products:  
TOXIC OXIDES OF PHOSPHORUS  
Conditions To Avoid Polymerization  
NONE. WILL NOT OCCUR.

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## **SECTION 11 : TOXICOLOGICAL INFORMATION**

Toxicological Paragraph:  
N/P

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## SECTION 12 : ECOLOGICAL INFORMATION

Ecological Paragraph:  
N/P

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## SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:  
PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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## SECTION 14 : TRANSPORT INFORMATION

Transportation Information:  
N/P

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## SECTION 15 : REGULATORY INFORMATION

### Applies to all ingredients:

SARA:

N/P

US Federal:

N/P

State:

N/P

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## SECTION 16 : ADDITIONAL INFORMATION

MSDS Author:

N/P

Disclaimer:

Please note that although the information, opinions and recommendations contained in these Material Safety Data Sheets are compiled from sources believed to be reliable, we accept no responsibility for the accuracy, sufficiency, or reliability or for any loss or injury resulting from the use of the information. Newly discovered hazards are frequent and this information may not be completely up to date.

Other Information

N/P

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