

MICRO ESSENTIAL LABORATORY -- HYDRION BUFFER SALT PH7.00 -- 6810-01-239-7562

===== Product Identification =====

Product ID:HYDRION BUFFER SALT PH7.00

MSDS Date:01/05/1996

FSC:6810

NIIN:01-239-7562

MSDS Number: BZNLM

=== Responsible Party ===

Company Name:MICRO ESSENTIAL LABORATORY

Address:4224 AVENUE H

City:BROOKLYN

State:NY

ZIP:11210-3518

Country:US

Info Phone Num:718-338-3618

Emergency Phone Nu

m:718-338-3618

CAGE:93255

=== Contractor Identification ===

Company Name:DAIGGER A AND CO INC

Address:620 LAKEVIEW PKY

Box:City:ALSIP

State:IL

ZIP:60803

Country:US

Phone:847-816-5060

CAGE:15747

Company Name:FISHER SCIENTIFIC CO

Address:2000 PARK LN

Box:City:PITTSBURGH

State:PA

ZIP:15275

Country:US

Phone:412-490-8586

CAGE:22527

Company Name:MICRO ESSENTIAL LABORATORY

Address:4224 AVENUE H

Box:10824

City:BROOKLYN

State:NY

ZIP:11210-3510

Country:US

Phone:718-338-3618/ FAX 718-692-4491

CAGE:93255

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Composition/Information on Ingredients
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Ingred Name:SODIUM PHOSPHATE, DIBASIC (CERCLA) (NA₂HPO₄)

CAS:7558-79-4

RTECS #:WC4500000

Other REC Limits:NONE RECOMMENDED

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:POTASSIUM PHOSPHATE, MONOBASIC (KH₂PO₄)

CAS:7778-77-0

Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:NO Skin:YES In

gestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:KH₂PO₄:INHAL/ABSORBED THRU

SKIN/INGEST/EYE/SKIN:NO HARMFUL EFFECTS INDICATED FROM AVAILABLE

INFO.PROLONGED SKIN CONTACT COULD CAUSE SKIN IRRIT/ALLERGIC

RX.CHRONIC:PROLONGED SKIN CONTACT W/BULK PWDR HD NLG COULD CAUSE

SKIN IRRIT/ALLERGIC RX.NA₂HPO₄:INHAL DUST IRRIT

NOSE/THROAT.SKIN/EYE:MAY CAUSE SEVERE IRRIT/BURNS(SUPPL)

Explanation of Carcinogenicity:PER MSDS:NOT CARCINOGENIC.

Eff

ects of Overexposure:PROLONGED SKIN CONTACT W/BULK POWDER HANDLING

COULD CAUSE SKIN IRRITATION OR ALLERGIC REACTION. IRRIT

EYE/NOSE/INTESTINES. SKIN IRRIT, BURN TO EYES. NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:KH₂PO₄:PROLONGED SKIN CONTACT

W/BULK POWDER HANDLING COULD CAUSE SKIN IRRITATION OR ALLERGIC

REACTION. NA₂HPO₄:MAY RESULT IN INTESTINAL IRRIT IF SWALLOWED.MAY

IRRIT EYES/NOSE/SKIN.

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First Aid Measures
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Firs

t Aid:KH₂PO₄:GET MED ASSISTANCE IF ANY ADVERSE EFFECTS SHOULD

DEVELOP. EYE:FLUSH THOROUGHLY W/COLD WATER. SKIN:WASH W/SOAP/COLD

WATER. INHAL:REMOVE TO FRESH AIR. SWALLOWED:IF CONSCIOUS INDUCE

VOMITING. NA₂H PO₄:EYE:FLUSH THOROUGHLY W/COLD WATER FOR ABOUT

15MINS.GET MED ASSIST.SKIN:WASH W/SOAP/WATER.DERM PERSIST GET MED

ASSIST.INHAL:REMOVE TO FRESH AIR.GET MED ASSIST.INGEST:GET MED

ASSIT.

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Fire Fighting Measures
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Flash Point:NO

N-FLAMMABLE

Extinguishing Media:USE ANY SUITABLE MEDIA FOR SURROUNDING MEDIA.

Fire Fighting Procedures:NONE REQUIRED FOR KH₂PO₄.FOR NA₂HPO₄:WEAR PROT EQPMT/SCBA.MOVE EXPOSED CNTNRS FROM FIRE AREA.USE WATER TO KEEP FIRE-EXPO CNTNRS COOL.

Unusual Fire/Explosion Hazard:NONE FOR KH₂PO₄.FOR NA₂HPO₄:CLSD CNTNRS EXPO TO HEAT MAY EXPLODE.PHOSPHORUS OXIDE WILL FORM WHEN EXPO TO HIGH TEMPS.

===== Accidental Release Measures =====

Spill Release Procedures:KH₂PO₄

4:SWEEP PWDR INTO CNTNR.CLEAN AREA

W/WATER.PREPARED BUFF SOLN SPILL,NEUTRALIZE/MOP AREA.NA₂HPO₄:WEAR SCBA & FULL PROT CLOTH IF DUST CONCEN HIGH.PLACE MATL INTO CLEAN DRY CNTNR;REMOVE FRM AREA.FLU SH W/WATER.PREPARED BUFF SLN SPILL NEUTR/MOP/WASH.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:KH₂PO₄:MATL HYGROSCOPIC,STORE IN COOL DRY PLACE W/CNTNR TIGHTLY CLSD.NA₂HPO₄:KE EP CNTNR TIGHTLY CLSD IN DRY PLACE @CNTRL RM TEMP.

Other Precautions:KH₂PO₄:STORE AT CONTROLLED RM TEMP IN DRY LOCATIONS.WEAR FULL COVER CLOTH SAF GOGG/DUST RESP/GLOVE WHEN EXPO TO BULK PWDR HDNLG.NA₂HPO₄:DO NOT GET INTO EYES/SKIN/CLOTH.WASH THOROUGHLY AFT HNDLG.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE DUST CONCENTRATION IS HIGH USE APPROPRIATE NIOSH APPROVED DUST RESPIRATOR.

Ventilation:USE ADEQUATE GENERAL OR LOCAL VENTILATION TO KEEP FUME & DUST LEVELS AS LOW AS POSSIBLE.

Protective Gloves:NAUTRAL RUBB,BUTYL,NEOPRENE OR EQUIVALEN

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS.

Other Protective Equipment:FULL COVER APPROVED WORK CLOTHING.

Work Hygienic Practices:DO NOT BREATHE DUST/GET IN EYES.AVOID PROLONGED/REPEA SKIN CONTACT.WASH W/COLD WATER AFT USE.DO NOT TAKE INTERNALLY.

Supplemental Safety and Health

SPEC DENS:NA₂HPO₄:1.6

2;KH₂PO₄:2.34. SOLUB IN H₂O

@20C:NA₂HPO₄:11%;KH₂PO₄ 18%. MELT PT:400C KH₂PO₄;NA/ NA₂HPO₄.

HEALTH HAZ:WHEN EXPO TO HI CONCEN.SKIN ABSORB:MAY CAUSE IRRIT/DERM.INGEST:INTESTINAL IRRIT W/BURNS TO MOUTH.NAU,VOMIT.

NOTE:RECORD COMPOSED OF 2 MSDS-FOR NA₂HPO₄/KH₂PO₄.PER MFG:BUFF SALTS MIXTURE OF THESE CHEM

===== Physical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:SUPPLEMENTL

Vapor Density:4.9NA₂HPO₄

Spec Gravity:SUPPLEMENTAL

Solubility

in Water:APPRECIABLE (SUPPLE)

Appearance and Odor:KH₂PO₄:NO COLOR/ODOR,GRANULAR/CRYSTALLINE

PWDR.NA₂HPO₄:WHITE GRANULAR PWDR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:NO

NONE FOR KH₂PO₄.FOR NA₂HPO₄:ALKALOIDS,ANTIPYRINE,CHLORAL HYDRATE,LEAD ACETATE.

Stability Condition to Avoid:NONE FOR KH₂PO₄.FOR

NA₂HPO₄:ACIDS,MOISTURE.

Hazardous Decomposition Products:NONE FOR KH₂PO₄. FOR NA₂HPO₄:TOXIC

FUMES OF OXIDES & PHOSPHO

RUS.

===== Disposal Considerations =====

Waste Disposal Methods:NEUTRALIZE BUFFER SOLUTIONS BEFORE DISPSOAL.

DISPOSE AT APPROVED "SITE".DISPOSE OF ALL WASATES IAW FED/STATE/LOC REGS.

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