

FISHER SCIENTIFIC, CHEMICAL DIVISION -- BUFFER SOLUTION (PH 4.0, CONCENTRATED) --  
6550-00-973-9005

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

Product ID:BUFFER SOLUTION (PH 4.0, CONCENTRATED)

MSDS Date:04/10/1991

FSC:6550

NIIN:00-973-9005

MSDS Number: BKLRG

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIVISION

Address:1 REAGENT LANE

City:FAIRLAWN

State:NJ

ZIP:07410

Country:US

Info P

hone Num:201-796-7100

Emergency Phone Num:201-796-7100

CAGE:18464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410

Country:US

Phone:201-796-7100

CAGE:18464

Company Name:FISHER SCIENTIFIC CO

Address:2000 PARK LN

Box:City:PITTSBURGH

State:PA

ZIP:15275

Country:US

Phone:412-490-8586

CAGE:22527

===== Composition/Information on Ingredients =====

Ingred Name:POTASSIUM HYDROGEN PHTHALATE

CAS:877-24-7

Fraction

by Wt: 2.0%  
Other REC Limits:NONE SPECIFIED

Ingred Name:FORMALDEHYDE (SARA III)  
CAS:50-00-0  
RTECS #:LP8925000  
Fraction by Wt: 0.05%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:SEE 1910.1048  
ACGIH TLV:C 0.3 PPM; A2; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)  
CAS:67-56-1  
RTECS #:PC1400000  
Fraction by Wt: 0.02%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:S,200PPM/250STEL  
ACGIH TLV:S,200PPM/250STEL; 93  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 98-99%  
Other REC Limits:NONE SPECIFIED

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===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:ACUTE-VAPORS MAY BE IRRITATING TO  
SKIN, EYES AND MUCOUS MEMBRANE. LIQUID MAY CAUSE SEVERE BURNS TO  
SKIN AND EYES. INGESTION:IRRITATION AND BURNS TO GI TRACT.  
CHRONIC:DER  
MATITIS.  
Explanation of Carcinogenicity:FORMALDEHYDE IS LISTED BY IARC, NTP OR  
OSHA AS A CARCINOGEN.  
Effects of Overexposure:INHALATION OF VAPORS MAY CAUSE COUGHING, CHEST  
PAINS OR NOSE AND THROAT IRRITATION., IRRITATION OF EYES AND SKIN.  
Medical Cond Aggravated by Exposure:SKIN AND LUNG DISEASES.

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===== First Aid Measures =====

First Aid:INGESTION: IF CONSCIOUS, GIVE 2-4 GLASSES OF WATER OR MILK,  
AND INDUCE VOMITING. EYES:IMMEDIATELY FLUSH WITH

PLENTY OF WATER

FOR AT LEAST 15 MINUTES. SKIN:WASH WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. INHALATION: REMOVE TO FRESH AIR. IN ALL CASES: SEEK MEDICAL HELP.

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Fire Fighting Measures  
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Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL

FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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Accidental Release Measures  
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Spill Release Procedures:WEAR FULL PROTECTIVE CLOTHING AND SCBA. SHUT OFF IGNITION SOURCES; NEUTRALIZE SPILL WITH SODA ASH OR LIME. WITH CLEAN DRY SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER.

Neutralizing Agent:SODA ASH OR LIME.

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Handling and Storage  
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Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA.

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Exposure Controls/Personal Protection  
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Respiratory Protection:NONE REQUIRED UNDER NORMAL USE

Ventilation:GENERAL SHOULD BE ADEQUATE.

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY GLASSES

Other Protective Equipment:APRON OR LAB COAT

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

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Physical/Chemical Properties  
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HCC:C3

Boiling Pt:B.P. Text:212F,100C

Melt/Freeze Pt:M.P/F.P Text:32.0F,0.0C

Vapor Density:0.7

Spec Gravity:1.0

pH:4.0

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID, COLOR CODED ACCORDING TO PH

Percent Volatiles by Volume:0

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES  
STRONG O

**XIDIZING AGENTS**

**Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION**

**Hazardous Decomposition Products:CARBON MONO & DIOXIDES.**

**===== Disposal Considerations =====**

**Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.**

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