

DOD Hazardous Materials Information System
DoD 6050.5-L
AS OF July 1998

FSC: 6810
NIIN: 00F007319
Manufacturer's CAGE: 1B464
Part No. Indicator: A
Part Number/Trade Name: BUFFER SOLUTIONS PH 9.0 TO 11.0

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General Information
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Item Name: BUFFER SOLUTIONS
Company's Name: FISHER SCIENTIFIC, CHEMICAL DIV.
Company's Street: 1 REAGENT LANE
Company's P. O. Box: N/K
Company's City: FAIR LAWN
Company's State: NJ
Company's Country: US
Company's Zip Code: 07410
Company's Emerg Ph #: 201-796-7100 OR 201-796-7523
Company's Info Ph #: 201-796-7100
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code:
Safety Focal Point: F
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SM
Date MSDS Prepared: 06SEP89
Safety Data Review Date: 19OCT90
Supply Item Manager: CX
MSDS Preparer's Name: N/K
Preparer's Company:
Preparer's St Or P. O. Box:
Preparer's City:
Preparer's State:
Preparer's Zip Code:
Other MSDS Number:
MSDS Serial Number: BBXSF
Specification Number: N/K
Spec Type, Grade, Class: N/K
Hazard Characteristic Code: N1
Unit Of Issue:
Unit Of Issue Container Qty:
Type Of Container:
Net Unit Weight:

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NRC/State License Number: N/R
Net Explosive Weight:
Net Propellant Weight-Ammo: N/R
Coast Guard Ammunition Code:

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Ingredients/Identity Information
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Proprietary: NO
 Ingredient: SODIUM CHLORIDE
 Ingredient Sequence Number: 01
 Percent: 0-3.0
 Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: VZ4725000
 CAS Number: 7647-14-5
 OSHA PEL: NOT ESTABLISHED
 ACGIH TLV: NOT ESTABLISHED
 Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
 Ingredient: SODIUM TETRABORATE, DECAHYDRATE
 Ingredient Sequence Number: 02
 Percent: 0-5.8
 Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: VZ2275000
 CAS Number: 1303-96-4
 OSHA PEL: 10 MG/M3
 ACGIH TLV: 5 MG/M3; 9192
 Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
 Ingredient: POTASSIUM CHLORIDE
 Ingredient Sequence Number: 03
 Percent: 0-6.0
 Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: TS8050000
 CAS Number: 7447-40-7
 OSHA PEL: NOT ESTABLISHED
 ACGIH TLV: NOT ESTABLISHED
 Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
 Ingredient: SODIUM GLYCINATE
 Ingredient Sequence Number: 04
 Percent: 0-6.0
 Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: MC1100000
 CAS Number: 6000-44-8
 OSHA PEL: NOT ESTABLISHED
 ACGIH TLV: NOT ESTABLISHED

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Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
 Ingredient: WATER
 Ingredient Sequence Number: 05
 Percent: >81.4
 Ingredient Action Code:
 Ingredient Focal Point: F
 NIOSH (RTECS) Number: ZC0110000
 CAS Number: 7732-18-5
 OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED
 Other Recommended Limit: NONE SPECIFIED

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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR,COLORLESS LIQUID(REDF,YELLOW OR BLUE FOR COLOR CODE.)

Boiling Point: 212F,100C
 Melting Point: 32.0F,0.0C
 Vapor Pressure (MM Hg/70 F): 14.0
 Vapor Density (Air=1): 0.7
 Specific Gravity: 1.0-1.13
 Decomposition Temperature: UNKNOWN
 Evaporation Rate And Ref: >1.0,ETHER=1
 Solubility In Water: SOLUBLE
 Percent Volatiles By Volume: N/K
 Viscosity:
 pH: 9-11
 Radioactivity:
 Form (Radioactive Matl):
 Magnetism (Milligauss): N/P
 Corrosion Rate (IPY): UNKNOWN
 Autoignition Temperature:

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Fire and Explosion Hazard Data

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Flash Point: NONE
 Flash Point Method: N/P
 Lower Explosive Limit: N/K
 Upper Explosive Limit: N/K
 Extinguishing Media: NOT FLAMMABLE;USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL IF APPLICABLE.
 Special Fire Fighting Proc: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
 Unusual Fire And Expl Hazrds: NONE EXPECTED

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Reactivity Data

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Stability: YES
 Cond To Avoid (Stability): AVOID CONTACT STORAGE W/INCOMPATIBLE MATERIALS
 Materials To Avoid: METALS, BUILDING METERIALS, ACIDS WATER-REACTIVE MTRL

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TRLS.

Hazardous Decomp Products: HCL, SODIUM OXIDE, CO, DIOXIDE GASES, CAUSTIC RESIDUE.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): REACT W/STEAM TO PRODUCE HEAT, HYDROGEN & FLAMMABLE VAPORS.

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Health Hazard Data

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LD50-LC50 Mixture: N/K
 Route Of Entry - Inhalation: N/P
 Route Of Entry - Skin: YES
 Route Of Entry - Ingestion: YES
 Health Haz Acute And Chronic:
 Carcinogenicity - NTP: NO
 Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity:

Signs/Symptoms Of Overexp: MUCOUS MEMBRANES IRRITATION, NAUSEA, VOMITING, CONVULSION, DEATH, HEADACHE, SORE THROAT, DIARRHEA.

Med Cond Aggravated By Exp:

Emergency/First Aid Proc: INHALATION: REMOVE TO FRESH AIR. SKIN: REMOVE CONTAMINATED CLOTHING/SHOES. WASH AFFECTED AREA W/SOAP, MILD DETERGENT/WATER. EYES: WASH W/WATER. INGESTION: IF CONSCIOUS, GIVE WATER, TO DILUTE THE ALKALIE. DON'T INDUCE VOMITING. GET MED ATT.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WEAR PERSONAL PROTECTIVE EQUIPMENT, ABSORB SMALL SPILLS W/VERMICULITE, SCOOP UP/PLACIN SUITABLE E.G., PLASTIC CONTAINER, CLOSE TIGHTLY/LABEL CORROSIVE. DIKEARGE SPILLS AS CLOSE TO SPILL AS PRACTICAL TO MINIMIZE ENVIRONMENTAL CONMINATION

Neutralizing Agent:

Waste Disposal Method: PUMP INTO SUITABLE CONTAINERS, CLOSE TIGHTLY, & LABEL CORROSIVE. KEEP OUT OF SEWERS & WATER SOURCES.

Precautions-Handling/Storing: STORE IN COOL, DRY AND WELL VENTILATED AREA. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions: N/K

Control Measures

Respiratory Protection: HIGH LEVELS: SCBA W/FULL FACEPIECE IN PRESSURE-DEMAND.

Ventilation: LOCAL OR GENERAL TO MAINTAIN PEL OR TLV (ADEQUATE VENTILATION.)

Protective Gloves: NEOPRENE/NITRIL

Eye Protection: SAFETY GOGGLES

Other Protective Equipment: DON'T WEAR CONTACT LENSES WHEN WORKING W/CHEMICALS.

Work Hygienic Practices:

Suppl. Safety & Health Data: AVOID CONTACT WITH EYES AND SKIN.DO NOT BREATHE VAPORS/MIST.

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Transportation Data

Transportation Action Code:

Transportation Focal Point: F

Trans Data Review Date: 90292

DOT PSN Code: ZZZ

DOT Symbol:

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

DOT Class: N/R

DOT ID Number: N/R

DOT Pack Group:

DOT Label: N/R

DOT/DoD Exemption Number:

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IMO Regulations Page Number: N/R

IMO UN Number: N/R

IMO UN Class: N/R

IMO Subsidiary Risk Label: N/R

IATA PSN Code: ZZZ

IATA UN ID Number: N/R

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
 IATA UN Class: N/R
 IATA Subsidiary Risk Class: N/R
 IATA Label: N/R
 AFI PSN Code: ZZZ
 AFI Symbols:
 AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
 AFI Class: N/R
 AFI ID Number: N/R
 AFI Pack Group:
 AFI Label: N/R
 AFI Special Prov:
 AFI Basic Pac Ref:
 MMAC Code:
 N.O.S. Shipping Name:
 Additional Trans Data:

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Disposal Data

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Disposal Data Action Code:
 Disposal Data Focal Point:
 Disposal Data Review Date:
 Rec # For This Disp Entry:
 Tot Disp Entries Per NSN:
 Landfill Ban Item:
 Disposal Supplemental Data:
 1st EPA Haz Wst Code New:
 1st EPA Haz Wst Name New:
 1st EPA Haz Wst Char New:
 1st EPA Acute Hazard New:
 2nd EPA Haz Wst Code New:

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2nd EPA Haz Wst Name New:
 2nd EPA Haz Wst Char New:
 2nd EPA Acute Hazard New:
 3rd EPA Haz Wst Code New:
 3rd EPA Haz Wst Name New:
 3rd EPA Haz Wst Char New:
 3rd EPA Acute Hazard New:

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Label Data

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Label Required: YES
 Technical Review Date: 19OCT90
 Label Date:
 MFR Label Number: N/K
 Label Status: F
 Common Name: BUFFER SOLUTIONS PH 9.0 TO 11.0
 Chronic Hazard: N/P
 Signal Word: CAUTION!
 Acute Health Hazard-None:
 Acute Health Hazard-Slight: X
 Acute Health Hazard-Moderate:
 Acute Health Hazard-Severe:
 Contact Hazard-None:
 Contact Hazard-Slight: X
 Contact Hazard-Moderate:
 Contact Hazard-Severe:
 Fire Hazard-None: X

Fire Hazard-Slight:
Fire Hazard-Moderate:
Fire Hazard-Severe:
Reactivity Hazard-None: X
Reactivity Hazard-Slight:
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:
Special Hazard Precautions: MAY BE POISONOUS IF INHALED OR ABSORBED
THROUGH SKIN. VAPORS CAUSE DIZZINESS OR SUFFOCATION. CONTACT MAY IRRITATE
OR BURN SKIN AND EYES. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.
RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.DO NOT TAKE
INTERNALLY.DO NOT BREATHE VAPORS OR MIST.AVOID CONTACT WITH EYES AND SKIN.
FIRST AID:IF INGESTED OR INHALED,REMOVE TO FRESH AIR AND CONSULT A
PHYSICIAN.FOR EYES AND SKIN,FLUSH WITH PLENTY OF WATER FOR ABOUT 15-20
MINUTES AND SEEK MEDICAL ATTENTION IMMEDIATELY IF IRRITATION PERSISTS
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: FISHER SCIENTIFIC, CHEMICAL DIV.
Label Street: 1 REAGENT LANE
Label P.O. Box: N/K
Label City: FAIR LAWN
Label State: NJ
Label Zip Code: 07410
Label Country: US
Label Emergency Number: 201-796-7100 OR 201-796-7523

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Year Procured: N/K