

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-900/9001-78-9.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
9001-78-9

**Code:**  
M

**RTECS:**

**Code:**  
X

**Name:**  
ALKALINE PHOSPHATASE

**Other REC Limits:**

N/K

**OSHA PEL:**  
N/K (FP N)

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**

N/K (FP N)

**Code:**  
M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

### Respiratory Protection:

USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

### Ventilation:

NORM LAB VENT ADEQ UNLESS AEROSOLS ARE GENERATED. IF AEROSOLS ARE GENERATED, CONSULT W/YOUR SFTY & ENVIRON HLTH OFFICER.

### Protective Gloves:

IMPERVIOUS GLOVES (FP N).

### Eye Protection:

ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

### Other Protective Equipment:

Equipment ANSI APPROVED EMERGENCY EYEWASH AND DELUGE SHOWER (FP N). LAB COAT OR EQUIVALENT TO PREVENT SKIN CONTACT.

### Work Hygienic Practices:

CONTACT LENSES SHOULD NOT BE WORN. WASH HANDS THOROUGHLY AFTER REMOVING GLOVES.

### Supplemental Safety and Health:

USERS OF "L" VERSION OF HMIS SHOULD "LR" VERSION FOR ADDNL INFO (FP N). APPEAR/ODOR: CONC: CLEAR TO SLIGHTLY YELLOW LIQ; SAMPLE DILUENT: CLEAR LIQ; MAGNETIC PARTICLES: BROWNISH, SLURRED LIQ. PH: ALL C HEM REAGENTS: 8.0-8.4 @ 21C. SOL IN H<sub>2</sub>O: ALL CHEM REAGENTS SOL EXCEPT FOR PARAMAGNETIC PARTICLES.

## Health Hazards Data

### LD<sub>50</sub>/LC<sub>50</sub> Mixture:

NONE SPECIFIED BY MANUFACTURER.

### Route Of Entry Inds - Inhalation:

YES

**Skin:**  
YES

**Ingestion:**  
YES

### Carcinogenicity Inds - NTP:

NO

**IARC:**  
NO

**OSHA:**  
NO

### Health Hazards Acute And Chronic:

ING 1/2:IRRIT TO MUC MEMB & UPPER RESP TRACT. COMPONENT OF MAGNETIC PARTICLES, SAMPLE DILUENT & CONJUGATE. ING 3:POSSIBLY INFECTIOUS MATL IF SKIN PENETRATED &/OR MUC MEMB EXPOSED. HANDLE AS POTENTIALLY INFECTIOUS MATLs I/A/W LOC, STATE & FED REGS. COMPONENT OF MAGNETIC PARTICLES, SAMPLE DILUENT & (EFTS OF OVEREXP)

### Explanation Of Carcinogenicity:

NOT RELEVANT.

### Signs And Symptoms Of Overexposure:

HLTH HAZ:CONJUGATE. ING 4/5:MICROBIOCIDE PRESERVATIVE THAT IS CORR IN CONC FORM. CONC OF PROCLIN IN PROD IS NOT CORR, BUT IS EYE & SKIN IRRIT & MAY CAUSE SKIN SENST RXNS IN SUSCEPTIBLE PERS. COMPONENT OF MAGNETIC PARTICLES & SAMPLE DILUENT. ING 6: MAY REACT W/LEAD & COPPER PLUMBING TO FORM HIGHLY EXPLO METAL (ING 18)

### Medical Cond Aggravated By Exposure:

NONE SPECIFIED BY MANUFACTURER.

### First Aid:

EYES: WASH W/COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CONTACT MEDICAL PERSONNEL. SKIN: WASH & RINSE AFFECTED AREA(S) THOROUGHLY W/SOAP & WATER. MAY CAUSE ALLERGIC SKIN REACTIONS. INGESTION: WASH OUT MOUTH W/WATER. FOR THE OTHER SOLUTIONS, INDUCE VOMITING. CALL MD/LOCAL POISON CONTROL CENTER. INHALATION: REMOVE FROM EXPOSURE AREA TO FRESH AIR.

### Spill Release Procedures:

12 ABSORB & PLACE IN SUITABLE WASTE CONTR. HUMAN-BASED MATL SPILLS SHOULD BE TREATED AS POTENTIALLY INFECTIOUS MATL & COVERED W/ABSORB MATL, FOLLOWED BY APPLICATION OF APPROP DISINFECTANT. USE UNIVERSAL PREC & GOOD CLINICAL LAB PRACT. (ING 17)

### Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

### Waste Disposal Methods:

DISPOSE OF WATER MATERIAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CONTACT YOUR SAFETY AND ENVIRONMENTAL HEALTH OFFICER FOR DISPOSAL PROCEDURES.

### Handling And Storage Precautions:

AVOID SPLASHING OR GENERATION OF AEROSOLS. CONSULT WITH YOUR SAFETY AND ENVIRONMENTAL HEALTH OFFICER. STORE AT 2-8C. AVOID FREEZING REAGENTS.

### Other Precautions:

FOLLOW PROPER LABORATORY SAFETY GUIDELINES FOR CHEMICALS AND BIOLOGICALS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT SUCH AS FACESHIELD, GLOVES, LAB COAT, ETC. REFER TO PRODUCT PACKAGE INSERT FOR ADDITIONAL PRODUCT INFORMATION.

## Fire and Explosion Hazard Information

### Flash Point Method:

N/P

### Flash Point:

### Flash Point Text:

N/A

### Autoignition Temp:

### Autoignition Temp Text:

N/A

### Lower Limits:

N/A

### Upper Limits:

N/A

### Extinguishing Media:

WATER, CARBON DIOXIDE, DRY CHEMICAL OR ALCOHOL FOAM.

### Fire Fighting Procedures:

WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

### Unusual Fire/Explosion Hazard:

MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS. COMBUSTION PRODUCTS: PRINCIPALLY CARBON, NITROGEN AND SULFUR OXIDES. NOT FLAMMABLE (EXCEPT PACKAGING MATERIALS). 13

## Physical/Chemical Properties

### HCC:

### NRC/State Lic No:

### Net Prop WT For Ammo:

### Boiling Point:

### B.P. Text:

### Melt/Freeze Pt:

### M.P./F.P. Text:

### Decomp Temp:

### Decomp Text:

### N/K 14p Text:

### Vapor Pres:

### N/K Pres:

### Vapor Density:

### Volatile Org Content %:

### Spec Gravity:

### N/P:

### VOC Pounds/Gallon:

### VOC Grams/Liter:

### PH: SUPDAT

### N/K:

### Evaporation Rate & Reference:

N/K

### Solubility in Water:

SOLUBLE

### Appearance and Odor:

REAGENT PACKS: TRANSLUCENT SOLID CONTR W/LIQ IN 3-5 WELLS; CONJUGATE (SUP DAT)

### Percent Volatiles by Volume:

N/K

### Corrosion Rate:

N/K

### Conditions To Avoid Polymerization:

NOT RELEVANT.

## Toxicological Information

### Information:

### N/P:

## MSDS/Transport Information

### Information:

### N/P:

## Regulatory Information

### Sara Title III Information:

N/P

### Federal Regulatory Information:

N/P

### State Regulatory Information:

N/P

## Other Information

### Other Information:

N/P

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