

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-134/13422-51-0.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
13422-51-0  
**Code:**  
M

**RTECS:**  
GG3820000  
**Code:**  
M

**Name:**  
HYDROXOCOBALAMIN \*95-1\*

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
NIOSH APPROVED RESPIRATOR.

**Ventilation:**  
LOCAL EXHAUST

**Protective Gloves:**  
DISPOSABLE SURGICAL LATEX

**Eye Protection:**  
SAFETY GOGGLES

**Other Protective Equipment:**  
Equipment DISPOSABLE PROTECTIVE APPAREL

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

**Supplemental Safety and Health:**  
N/K

## Health Hazards Data

**LD50LC50Mixture:**  
N/P

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ITCHING, TRANSITORY EXANTHEMA, MILD TRANSIENT DIARRHEA, FEELING OF SWELLING OF ENTIRE BODY & ANAPHYLAXIS.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
ITCHING, TRANSITORY EXANTHEMA, MILD TRANSIENT DIARRHEA, FEELING OF SWELLING OF ENTIRE BODY & ANAPHYLAXIS.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
INHALATION: REMOVE TO FRESH AIR. INGESTION: FLUSH MOUTH OUT W/WATER. SKIN: FLUSH AREA W/WATER. EYES: FLUSH W/WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
WEAR PERSONAL PROTECTIVE EQUIPMENT. VACUUM W/A VACUUM CLEANER HAVING A HIGH EFFICIENCY PARTICULATE (HEPA) FILTER. ABSORB LIQUID W/PAPER TOWELS. WIPE WORKING SURFACES TO DRYNESS, WASH W/SOAP & WATER.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
WASTE SHOULD BE DISPOSED OF IAW/FEDERAL, STATE & LOCAL REGULATIONS.

**Handling And Storage Precautions:**  
N/K

**Other Precautions:**  
AVOID ALL CONTACT & INHALATION OF DUST, FUMES, MISTS, &/VAPORS ASSOCIATED W/THE PRODUCT.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/R

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
WATER SPRAY, CO2, DRY CHEMICAL, FOAM AS APPROPRIATE FOR SURROUNDING FIRE & MATERIALS.

**Fire Fighting Procedures:**  
USE SCBA & PROTECTIVE CLOTHING.

**Unusual Fire/Explosion Hazard:**  
EMITS TOXIC FUMES.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/R

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/K

**Decomp Temp:**

**Decomp Text:**  
N/K 3

**Vapor Pres:**  
N/R

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
MODERATE

**Appearance and Odor:**  
CLEAR RED SOLUTION

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
LIGHT, HEAT.

**Materials To Avoid:**  
N/K

**Hazardous Decomposition Products:**  
EMITS TOXIC FUMES WHEN HEATED

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K

## 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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