

FISHER SCIENTIFIC -- CYANOCOBALAMIN,VITAMIN B-12 -- 6810-01-449-6393

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

Product ID:CYANOCOBALAMIN,VITAMIN B-12

MSDS Date:03/04/1996

FSC:6810

NIIN:01-449-6393

MSDS Number: CFTJM

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIRLAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100 800-42

4-9300(CHEMTREC)

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:CYANOCOBALAMIN (B12)

CAS:68-19-9

RTECS #:GG3750000

Fraction by Wt: 99%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD

50 ORAL RAT HAS NOT BEEN ESTABLISHED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED.THIS MATERIAL MAY BE A SKIN SENSITIZER AND MAY HAVE FETAL EFFECTS.

Explanation of Carcinogenicity:IARC-2B.

Effects of Overexposure:SENSITIZATION:REDNESS,RASH,DERMATITIS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MFR.

=

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

First Aid:EYES:FLUSH WITH WATER UNTIL ALL TRACES OF THIS MATERIAL ARE GONE.SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.SKIN:REMOVE CONTAMINATED CLOTHING.WASH WITH SOAP AND WATER.SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.INHAL:REMOVE FROM EXPOSURE.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NECESSARY.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.(SUPPL)

=====  
===== Fire

Fighting Measures =====

Flash Point:NONE

Extinguishing Media:WATER SPRAY,DRY CHEMICAL,CARBON DIOXIDE,FOAM.

Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:FIRE CONDITION MAY GENERATE TOXIC FUMES.

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

Spill Release Procedures:USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.SWEEP UP WITHOUT DREATING DUST;PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MFR.

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

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.AVOID HEAT,SPARKS AND FLAMES.

Other Precautions:AVOID EYE AND SKIN CONTACT.DO NOT INHALE DUST.

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

Respiratory Protection:NONE SPECIFIED BY MFR.FP-D:USE A NIOSH-MSHA

APPROVED RESPIRATOR FOR DUST.

Ventilation:NONE SPECIFIED BY MFR.FP-D:USE LOCAL EXHAUST AT THE WORKSITE;GENERAL EXHAUST TO MAINTAIN TLV/PEL.

Protective Gloves:FP-D:USE DISPOSABLE LATEX GLOVES.

Eye Protection:FP-D:USE DUST-PROOF GOGGLES.

Other Protective Equipment:APRON,COVERALLS.PROVIDE A LOCAL EYE WASH STATION AND QUICK DRENCH SHOWER.

Work Hygienic Practices:USE REASONABLE CARE WITH THIS ITEM.WASH HANDS BEFORE EATING.

Supplemental Safety and Health

FIRST AID:TREAT SYMPTOMATICALLY A

ND SUPPORTIVELY.NO SPECIFIC ANTIDOTE EXISTS.

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

HCC:T6

Melt/Freeze Pt:M.P/F.P Text:572F,300C

Vapor Pres:NEGLIGIBLE

Solubility in Water:MODERATE

Appearance and Odor:DARK RED CRYSTALLINE POWDER.

Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDZERS,STRONG ACIDS.

Stability Condition to Avoid:HIGH HEAT AND SOURCES OF IGNITION.

Hazardous Decomposition Products:CARBON DIOXIDE,CARBON MONOXIDE,OXIDES OF NITROGEN,PHOSPHOROUS AND COBALT.

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

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

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly

or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.