ATTN: SAFETY DIRECTOR  
STATE OF WISCONSIN  
DEPARTMENT OF JUSTICE  
STATE CRIME LAB  
PO BOX 7857  
MADISON WI 53707

DATE: 07/15/91  
CUST#: 523143  
PO#: JD80129

MATERIAL SAFETY DATA SHEET  
PAGE 1

PRODUCT #: 21613-5  
CAS #: 3017-60-5  
MF: C2CON2S2

NAME: Cobalt(II) Thiocyanate

TOXICITY HAZARDS

ADDITIONAL INFORMATION

ACGIH TLV-TWA: 0.05mg/m3, AS COBALT.

HEALTH HAZARD DATA

ACUTE EFFECTS

HARMFUL IF SWALLOWED.  
MAY BE HARMFUL IF INHALED.  
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.  
MAY CAUSE IRRITATION.

CHRONIC EFFECTS

NAUSEA, HEADACHE AND VOMITING.  
MAY CAUSE NERVOUS SYSTEM DISTURBANCES.  
TARGET ORGAN(S):  
LUNG, THYROID

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH copious amounts of  
WATER FOR AT LEAST 15 MINUTES.  
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND copious  
AMOUNTS OF WATER.  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL  
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.

PHYSICAL DATA

APPEARANCE AND ODOR  
BROWN CRYSTALLINE POWDER AND CHUNKS

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES  
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO

CONTINUED ON NEXT PAGE
NAME: COBALT(II) THIOCYANATE

PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSION HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

INCOMPATIBILITIES
MOISTURE
AVOID CONTACT WITH ACID.
OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
HYDROGEN CYANIDE
SULFUR OXIDES

SPILL OR LEAK PROCEDURES
THE MATERIAL SHOULD BE DISSOLVED IN 1) WATER; 2) ACID SOLUTION OR 3)
OXIDIZED TO A WATER-SOLUBLE STATE. PRECIPITATE THE MATERIAL AS THE
SULFIDE, ADJUSTING THE pH OF THE SOLUTION TO 7 TO COMPLETE PRE-
CIPITATION. FILTER THE INSOLUBLE AND DISPOSE OF THEM IN A HAZARDOUS-
WASTE SITE. DESTROY ANY EXCESS SULFIDE WITH SODIUM HYPOCHLORITE.
NEUTRALIZE THE SOLUTION BEFORE FLUSHING DOWN THE DRAIN.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

CONTINUED ON NEXT PAGE
PRODUCT #: 21613-5
CAS #: 3017-60-5
MF: C2C02N52

NAME: COBALT(II) THIOCYANATE

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

READILY ABSORBED THROUGH SKIN.
WASH THOROUGHLY AFTER HANDLING.
HARMFUL, SOLID.
KEEP CONTAINER CLOSED.
HYGROSCOPIC.
HANDLE UNDER NITROGEN.
STORE IN A COOL DRY PLACE.

REGULATORY INFORMATION
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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